ATTACHMENT 1



Ultra-Drain Guard

Part# 9217 / 9356 Oil & Sediment Model, 1-Pack Part# 9376 Ultimate Model, 1-Pack Part# 9218 Oil & Sediment Model, 10-Pack Part# 9377 Ultimate Model, 10-Pack Part# 9393 Oil & Sediment Model, High Capacity, 1-Pack Part# 9378 Recycled Model, 1-Pack Part# 9219 / 9358 Oil & Sediment Plus Model, 1-Pack Part# 9379 Recycled Model, 10-Pack Part# 9220 Oil & Sediment Plus Model, 10-Pack Part# 9397 Heavy Metal Model, 1-Pack

INSTALLATION AND MAINTENANCE INSTRUCTIONS

Installation:

- 1. Remove catch basin grating
- 2. Clean dirt and debris from grating ledge
- Insert Drain Guard. If using the Ultra-Drain Guard High Capacity Model, Part# 9393, Ultra-Drain Guard Retainers must be used – see below for installation instructions
- Reinstall grate. To insure maximum effectiveness, Drain Guard skirt should be secured (pinched) between grating and ledge.
- 5. Cut the excess fabric off with a blade or knife if desired.

Installation with optional Ultra-Drain Guard Retainers (Part# 9237 / 9238)

- Follow steps 1 and 2 above. Insert Retainer through handling straps of Drain Guard. (Each Retainer should be holding two straps).
- Insert Drain Guard, placing Retainers across basin opening so that flat plates lay on grating ledge.
- Follow steps 4 and 5 above.

Maintenance and disposal:

- The Ultra-Drain Guard filters are designed to be used for 3 to 6 months under normal conditions.
 Where heavy contamination is present the unit will have a reduced life expectancy. When the unit has
 collected about 6 inches of sediment it is recommended that it be replaced. The unit should also be
 replaced if free oil can be seen floating and is not being absorbed. The Ultra-Drain Guards should be
 inspected on a regular basis.
- Dispose of unit in accordance with applicable Federal, state and local environmental laws and regulations. The user is solely responsible for compliance with maintenance and disposal laws and regulations. The manufacturer or seller assumes no responsibility for proper or improper maintenance or disposal.
- Part# 9393 (High Capacity model) is equipped with two lifting straps to facilitate in removal of the Ultra-Drain Guard using a forklift or other lifting device, as this model can hold up to 300 lbs. of sediment

Other Stormwater Management Products are available from UltraTech. Please call us at (800) 353-1611 for a complete catalog or





Ultra-Drain Guards® Specifications

Material Specifications

Properties	ASTM Test	Value
Material: Non-woven, Polypropylene Geotextile		
Grab Tensile	D 4632	205 lbs
Elongation	D 4632	50%
Trapezoid Tear	D 4533	80 lbs
Puncture	D 4833	525 lbs
CBR Puncture	D 6241	600 lbs
Mullen Burst	D 3786	420 psi
Permittivity	D 4491	1.5 sec-1
A.O.S. (U.S. sieve no.) / Microns	D 4751	80 / 180
JV Stability (strength retained %) 500 hrs	D 4355	70%
Fabric Weight (oz/yd2) (typical)	D 5261	8 oz/yd²
Flow (through material)	D 4491	90 gpm/ft
Flow (bypass ports gpm) *		770 gpm
Flow (bypass ports cfs) *		1.7 cfs



Unit Specifications

Model	Oil Capture (Gal)	Sediment Capture (lbs)	Collection Area (dia x depth)	Flow Rate (gpm)	Dimensions
Oil & Sediment ² Part # 9217	.87	40	10" x 18"	500	48" x 36" x 18"
Oil & Sediment ² Part # 9356	1.55	40	10" x 18"	900	60" x 60" x 18"
Oil & Sediment Plus² Part # 9219	1.38	40	10" x 18"	500	48" x 36" x 18"
Oil & Sediment Plus ² Part # 9358	2.06	40	10" x 18"	900	60" x 60" x 18"
Trash & Debris Part # 9227		40	10" x 18"	500	48" x 36" x 18"
Ultimate³ Part # 9376	1.57	40	10" × 18"	500	48" x 36" x 38"
High Capacity Part # 9393	1.9	300	24" x 24"	1000	60" x 60" x 24"
Adjustable Frame Model Part# 8930	1.26	40	10" x 18"	500	Varies

^{*} Larger bypass flow rate designs are available

ATTACHMENT 2

Title: Storm Water Pollution Prevention Plan

Approval:

Signature

Date

Prepared by:

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Revised by:

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04/20/2017

5/9/2017

20/04/2017

Distribution list:

- 1. Environmental
- 2. Material Handling Team Leader
- 3. Control Room
- 4. Maintenance Team Leader

Supersedes August 2011 / 2012 / 2014 / 2015 SWPPPs

March 2017

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FIGURES

Figure No. 1: Location Map

Figure No. 2: Coal-fired Power Plant Site Map

Figure No. 3: Marine Dock Site Map

APPENDIXES

Appendix No. 1: Storm Water BMPs Maintenance Matrix

WORKSHEETS

Worksheet No. 1: Pollution Prevention Team Members Worksheet No. 2: List of Significant Spills and Leaks

Worksheet No. 3: Non-Storm Water Discharge Assessment and Certification

Worksheet No. 4: Storm Water Pollutant Source Identification

Worksheet No. 5: Storm Water Quarterly Routine Facility Inspection Form

Worksheet No. 6: Storm Water Quarterly Visual Assesments Form

Worksheet No. 7: Annual Report Form

ATTACHMENTS

Attachment No.1: Notice of Intent / EPA Acknowledgement

Attachment No.2: Permit Eligibility Documentation

- Endangered Species

- Historic Places

Attachment No.3: 2015 MSGP

Attachment No.4: Record of Amendments

Attachment No.5: Training Records

Attachment No.6: Routine Facility Inspections

Attachment No.7: Visual Assessments

Attachment No.8: Monitoring Data

Attachment No.9: Corrective Actions

Attachment No.10: Other Documentation

I. Introduction

A. Facility Information

AES Puerto Rico (AES-PR) is a bituminous coal-fueled power plant that generates and sells electricity to the Puerto Rico Electric Power Authority (PREPA) with a total power generation capacity of 454 Megawatts (MW); this represents approximately 15% of the electricity consumed on the island. AES-PR also produces steam and a manufactured aggregate known as Agremax.

AES-PR is located on an 85 acre tract of land owned by AES Puerto Rico, LP. It is bordered to the north by a pharmaceutical facility (TAPI Puerto Rico, Inc.-TAPI) and vacant land owned by the Puerto Rico Land Administration (PRLA); to the south by wetlands and Bahia Las Mareas; to the east by the former Chevron Phillips Chemical Puerto Rico Core, LLC (CPC) facilities; and to the west by AES Ilumina and PRLA vacant land. The facility owned and operated by AES-PR is composed of a coal-fired power plant and an ancillary marine dock that is not contiguous to the main power plant. It also occupies associated rights-of-way for elevated conveyors, transmission lines, make-up water supply lines, process steam piping and service/access roads. The facility operates under Standard Industrial Classification (SIC) Code No. 4911- Electric Services.

The physical address of this facility is:

AES Puerto Rico, LP
Km 142.0, State Road PR 3
Jobos Ward
Guayama, Puerto Rico

The facility representative and the postal address are:

Hector M. Avila Caballero

Sr. Environmental Coordinator

AES Puerto Rico, LP

P.O. Box 1890

Guayama, PR 00785

Figure No. 1 is the AES-PR Location Map that shows the body of water that could be affected by its discharge; the storm water discharges of the main facility drain south towards a wetland area; the dock facility drains directly to Bahia Las Mareas. The AES facilities are completely fenced and gated and include a power plant building, office / storage and maintenance buildings, open paved parking areas, cooling tower, open coal and manufactured aggregate stockpile areas, limestone storage dome, manufactured aggregate / coal pile runoff pond, a storm water runoff pond, a make-up water pond, a cooling tower water pond, water treatment facilities, material and equipment storage areas and storm water collection and conveyance systems. The coal pile runoff pond collects non-industrial storm water runoff from the coal stockpile, the limestone storage dome area, the manufactured aggregate stockpile and certain areas adjacent to these locations. The storm water runoff pond collects non-industrial storm water runoff. Figures No. 2 and No.3 are the Site Maps that show the layout and the location of the facility's main structures, storage areas, loading and unloading areas, location of storm water outfalls (3), patterns of storm water drainage and other information relevant to this Storm Water Prevention Pollution Plan (SWPPP).

B. Description of Industrial Activities

The main components of the power plant facility are two coal-fired circulating bed boilers and steam turbine units; air emissions control systems, a wet cooling tower, a water reuse and treatment system, and coal / limestone / ash / manufactured aggregate storage and handling systems. The operations of AES-PR marine dock are limited to bulk coal, limestone and manufactured aggregate handling operations and do not include vessel maintenance, equipment cleaning operations or material storage.

Bulk coal and limestone are delivered by marine vessel to the dock facility at the Las Mareas Harbor and transferred by a covered overland conveyor system to the power plant stockpiles area. Limestone can also be delivered by truck. Fly ash is removed from the facility by dry bulk tank trailers. Bottom ash in the form of manufactured aggregate is transferred by overland covered conveyor systems from the power plant to the dock facility and loaded into ocean vessels for marine transportation or removed from the facility by dump trucks. The marine dock receives approximately four coal shipments per month and four limestone shipments per year for the energy production operations. Manufactured aggregate is shipped off-site at least once per year.

All other plant consumables such as diesel fuel, oils, sulfuric acid, sodium hydroxide, lime, soda ash and urea are delivered by truck and stored in tanks or containers located within secondary containment areas.

C. Purpose

AES-PR has prepared and will implement this SWPPP according to good engineering practices and industry standards, the applicable storm water management regulations and the Multi-Sector General Permit (MSGP) for Industrial Activities, published by the US Environmental Protection Agency (EPA) on June 4, 2015. These regulations aim to prevent and control storm water pollution originating from rainwater discharges that come in contact with

pollutants present in exposed materials or industrial activities at certain facilities designated by their SIC Code. EPA has grouped the universe of affected industrial facilities into Sectors. With some exceptions, storm water discharges from parking lots, vegetated areas, and other non-industrial areas or activities within the affected facilities are not regulated under the 2015 MSGP. AES-PR is a coal power plant that generates and sells electricity to the PREPA. AES-PR also owns and operates ancillary marine dock facilities that are not contiguous to its main power generation plant. The AES-PR activities are covered under Sector O - Steam Electric Generating Facilities (SIC 4911-Electric Services).

The objectives of this SWPPP are:

- To identify sources of pollution potentially affecting the quality of storm water discharges associated with industrial activities from the AES-PR facility;
- To describe and ensure implementation of practices to minimize and control pollutants in storm water discharges associated with industrial activities from the facility; and
- To assure compliance with the terms and conditions of the 2015
 MSGP

This SWPPP intends to facilitate the process of evaluation of potential pollution sources at the AES-PR facility and the selection of appropriate measures designed to prevent or control the discharge of pollutants in storm water runoff. The process involves four steps: (1) formation of a team of qualified facility personnel who will be responsible for implementing the SWPPP; (2) assessment of potential storm water pollution sources; (3) selection of appropriate management practices and controls; and (4) periodic evaluation of the effectiveness of the SWPPP to prevent storm water contamination.

This SWPPP will be reviewed, modified and updated:

- If there is a change in design, construction, operation, or maintenance at the facility that would significantly affect the discharge or potential for discharge of pollutants from it;
- If the average of four quarterly sampling results exceeds an applicable benchmark;
- Within 14 calendar days of completing corrective action work that results in changes to any of the controls or procedures documented in this SWPPP; or
- Not later than 45 days after conducting the final routine facility inspection for the year.

II. Storm Water Pollution Prevention Team

A. Members, Roles and Responsibilities

The Storm Water Pollution Prevention Team (SWPPT) is a group of staff individuals responsible for assisting the plant management in developing, implementing, maintaining and revising the facility's SWPPP. The scope of activities and responsibilities of the SWPPT include:

- Identifying of potential storm water pollution sources at the facility;
- Identifying and implementing of Best Management Practices (BMPs)
 for each potential storm water pollution source identified at the facility:
- Identifying potential spill sources;
- Establishing storm water incident reporting procedures;
- Completing SWPPP inspections and record keeping;
- Reviewing environmental incidents to determine and implement necessary changes to the SWPPP;
- Establishing SWPPP training requirements for facility personnel;
- Evaluating the effectiveness of the SWPPP periodically;
- Making recommendations to management on SWPPP-related matters;
 and
- Reviewing changes in operational procedures, new processes and projects to determine their impact on the SWPPP.

Worksheet No.1 is a list of the SWPPT members responsible for the development and implementation of this SWPPP. This Worksheet also includes a brief description of each member's responsibilities.

III. Description of Potential Pollutant Sources

A. Site Map

Figures No. 2 and No.3 are the Site Maps that have been developed for the coal-fired power plant and the marine dock facilities and show the general information required by the 2015 MSGP, including the additional requirements for Sector O, including but not limited to: main buildings and structures, potential storm water pollutant sources, fuel storage areas, loading and unloading areas, materials storage areas, waste storage areas, the location of storm water outfalls, patterns of storm water drainage and locations where significant materials or industrial activities are exposed to rainfall and runoff. There are three storm water outfalls at AES-PR: outfall serial 001 located at the at the marine dock area, outfall serial 002 located at the southeast corner of the power plant and outfall serial 003 at the west side of the power plant.

Significant materials or industrial activities are not exposed if they are protected by a storm resistant shelter to prevent exposure to rain and/or runoff. Significant materials include, but are not limited to the following: raw materials, fuels, solvents, detergents, plastic resin pellets, finished materials, raw materials used in food processing or production, hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), any chemical that the facility is required to report under the Emergency Planning and Community Right to Know Act Section 313, fertilizers, pesticides, scrap materials, waste products, cooling tower mist or blow downs, exhaust vents, and salt or coal storage.

The significant materials handled at AES-PR include coal, limestone, manufactured aggregate, fly ash, diesel fuel, oils, sulfuric acid, sodium hydroxide, lime, soda ash, urea, herbicides, scrap equipment and metals and sanitary wastes.

The main pollutants that could be discharged through the existing storm water system are suspended solids, pH, metals, herbicides, fecal coliforms,

nutrients and hydrocarbons. Suspended solids can originate from wind or water erosion of ground surfaces, stockpile areas and vehicle tracking onto access roads; pH can originate from the loading / unloading / storage / transfer operations. Hydrocarbons can originate from the loading / unloading / storage / transfer operations oil or fuel leaked or released from machinery and/or vehicles; fecal coliforms and nutrients can originate from overturned portable toilets and exposed urea; metals can originate from scrap yards and uncovered dumpsters; herbicides used around the site's perimeter fence, the switchyard and other areas can also be carried off by storm water runoff if improperly applied.

B. Potential Pollutant Sources

This section describes the assessment of the risk potential that exposed sources of pollution pose to storm water quality. It includes activities, materials, and physical features of the facility that have a potential to contribute significant amounts of pollutants to storm water.

Table 1 is a list of industrial activities at AES-PR. The pollutant sources and pollutant constituents include:

Table 1 Potential Pollutant Sources

Activity	Pollutant Source	Pollutant
Coal/ limestone/ash/ manufactured aggregate stockpiling and transfer	Fugitive dust, wind erosion, water erosion, vehicle tracking	Particulate matter, Total Suspended Solids (TSS),metals
Fuel and oil loading/unloading/ storage and transfer	Spills and leaks	Hydrocarbons
Chemicals loading/unloading/storage and transfer	Spills and leaks	pH, nutrients
Heavy equipment maintenance area	Spills and leaks	Hydrocarbons
Portable toilets	Spills and leaks from overturned units	Fecal coliforms, nutrients
Herbicide application	Incorrect application	Herbicides
Scrap yard and solid waste storage	Exposed equipment, scrap and wastes	Hydrocarbons, metals
Cooling tower	Windblown mist and foam	рН

C. Significant Spills and Leaks

Table 2 describes the areas of the facility where potential significant spills and leaks that could contribute pollutants to the site's storm water could occur and the outfalls likely to be affected by such spills.

Table 2 Areas Where Potential Spill/Leaks Could Occur

Location	Outfalls
Dock Area	001
Chemical storage tanks	003
Heavy equipment maintenance area	003
Boiler / turbine lube oil tanks and reservoirs	003
Electrical switchyard	003
Oil drums storage shed	003
Fuel unloading and storage area	003

Worksheet No.2 describes significant spills and leaks of oil, toxic, or hazardous pollutants that have occurred in the past 3 years at exposed areas or that drained to a storm water conveyance.

Note: no significant spills or leaks of oil, toxic or hazardous pollutants have occurred at the facility. Significant spills include but are not limited to releases of oil or hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act or Section 102 of CERCLA. Significant spills may also include releases of oil or hazardous substances that are not in excess of reporting requirements and releases of materials that are not classified as oil or a hazardous substance.

D. Non- Storm Water Discharge Assessment and Certification

Visual inspections of storm water outfalls during dry weather will be used to determine if non-storm water discharges exist. Only precipitation runoff or water that could be classified as storm water can be discharged from this facility. The non-storm water discharges assessment certification required by the MSGP is included in **Worksheet No. 3**.

E. Salt Storage

AES-PR does not have salt storage piles.

F. Sampling Data

Storm water discharge sampling data collected by AES-PR during the 2008 MSGP permit term is summarized and presented in **Attachment 1**.

G. Authorized Non-Storm Water Discharges

The MSGP authorizes the following non-storm water discharges:

- Discharges from firefighting activities;
- Fire hydrant flushings:
- Potable water, including waterline flushings;
- Uncontaminated condensate from air conditioners, coolers, compressors and outside storage of refrigerated gases or liquids;
- Irrigation drainage;
- Landscape watering provided all pesticides, herbicides and fertilizers have been applied in accordance with approved labeling;

- Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
- Routine external building wash downs without detergents;
- Uncontaminated groundwater or spring water;
- Foundation or footing drains not contaminated with process materials;
 and
- Incidental windblown mist from cooling towers.

The sources of non-storm water discharges at AES-PR are the following:

- Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
- Routine external building wash downs without detergents;
- Incidental windblown mist from cooling towers.

H. Prohibited Non-Storm Water Discharges

The MSGP prohibits the following non-storm water discharges for Sector O: non-storm water discharges subject to effluent limitations, storm water discharges from ancillary facilities not contiguous to a steam electric power generating facility, storm water discharges from gas turbine facilities, combined-cycle facilities where no supplemental fuel oil is burned, and cogeneration facilities utilizing a gas turbine.

None of the prohibited non-storm water discharges above are present at the AES-PR facilities.

IV. Storm Water Controls

AES-PR has developed and implemented storm water management controls also known as Best Management Practices (BMPs) based on the potential sources of pollutants identified at the facility. The following includes a brief description of the BMPs that already have been adopted:

A. Exposure Minimization

- Coal, limestone and manufactured aggregate are transported in covered conveyors;
- Limestone is stockpiled indoors;
- · Oil drums are stored indoors;
- Heavy equipment and vehicle maintenance is performed under cover;
- Grading, berming, or curving in process and material storage areas;
- Spills and leaks are promptly cleaned using dry methods;
- Drip pans and absorbents are placed under or around leaky vehicles and equipment.
- All waste storage containers exposed to storm water are covered with lids or rollup covers.
- Zero Liquid Discharge (ZLD) salts waste containers will be placed inside secondary containment at all times.
- Water treatment clarifier sludge waste containers will be placed in rolloff containers inside secondary containment at all times.
- Limestone silos are contained within a dike to prevent that materials gain access to storm water drains.

- CDS/ESP air pollution control equipment is contained within a dike to avoid that particulate material gains access to storm water drains.
- All equipment and materials stored outside will be covered with a storm-resistant covers.
- Chemical containers/totes will be stored indoors or within secondary containment areas.

B. Good Housekeeping

All areas that are potential sources of pollutants will be kept clean using measures such as sweeping at regular intervals, keeping materials in order and labeled, and storing materials in appropriate containers. Some additional procedures specific to the industrial sectors of the facility will include:

- Control of fugitive dust emissions from coal handling areas and reduction
 of tracking of coal dust through the use of covered conveyors and
 washing the tires of vehicles in designated areas before they leave the
 stockpile area;
- Inspection of arriving delivery vehicles to ensure the overall integrity of the body or container and that they are not leaking;
- Containment curbs at fuel and chemical loading and unloading areas to contain spills;
- Impact, spill and overflow protection for above-ground liquid storage tanks;
- Spill Prevention, Control and Countermeasures (SPCC) Plan for bulk storage containers;
- Routine visual inspections of the structural integrity of all above-ground tanks and ancillary equipment that may be exposed to storm water;

- Oil-bearing equipment in the switchyard is provided with secondary containment;
- Inspection of manufactured aggregate and fly ash hauling vehicles for proper load cover, gate seal, and overall integrity of the container body;
- Immediate cleaning of spills in ash-loading areas;
- Draining fluids from equipment prior to storage at the scrap yard;
- Use of covered dumpsters in good condition for waste storage prior to pick up;
- Regular sweeping, cleaning and maintenance of all swales / drainage channels and impervious areas where particulate matter, dust or debris may accumulate e.g. loading and unloading and vehicle traffic areas.
- Removal of vegetative material from concrete swales and ditches once landscape maintenance is completed.

Solid materials which could be transported by storm water runoff and discharged to waters of the US include containers, packaging materials (foam, plastic, cardboard), disposable food containers, paper or plastic water cups, etc. To reduce the risk of discharging these solid wastes, the following good housekeeping practices will be followed:

- All waste materials accumulated onsite will be stored in a neat, orderly manner or in appropriate covered containers;
- Portable toilets will be located at least 25 feet away from storm water conveyance structures and anchored;
- If needed, wind barriers, trash interceptors or other similar devices will be used to intercept waste, garbage and debris that are blown by wind or floated by storm water runoff.

C. Maintenance

AES-PR has a preventive maintenance program that includes all mechanical equipment used for storm water management at the facility.

Some of the elements included in the program are:

- Identification of equipment, systems and facility areas that must be inspected;
- · Schedule for periodic inspections;
- Maintenance of complete records;
- Work-order generation to track and fix equipment problems;
- Inspection and maintenance (repair and cleaning) of storm water management equipment (e.g. meteorological stations, automatic samplers, water tank truck, sweeper, sprinkler guns, water sprays);
- Inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures, resulting in discharge of pollutants to storm water;
- Maintenance of facility equipment and systems; and
- Visual inspection of areas.

These elements are used to prevent and detect conditions that may lead to discharges of pollutants to surface waters.

Equipment maintenance is performed under cover or inside building structures. Solvents, used oil and/or degreasers generated from these activities are collected and handled as hazardous waste or non-hazardous waste, as applicable. The amount of solvents and/or degreasers used is

minimal. No liquid materials are poured in the floor, floor drains, storm water drains and/or any sewer connection.

All BMPs identified in **Appendix 1** of this SWPPP will be maintained in effective operating condition. If site inspections identify BMPs that are not operating effectively, maintenance will be performed before the next anticipated storm event, or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance will be scheduled and accomplished as soon as practicable. In the case of non-structural BMPs, the effectiveness of each BMP will be maintained by appropriate means (e.g., spill response supplies and trained personnel available).

D. Spill Prevention and Response

AES-PR has developed and implemented a SPCC Plan that identifies procedures that will be followed for cleaning up spills or leaks, how to report spills, how to work with an emergency, emergency telephone numbers, etc. The SPCC Plan also includes the emergency coordination team organization, responsibilities and procedures to respond to spill emergencies.

E. Erosion and Sediment Control

Structural erosion and sediment at control (E&SC) measures have been designed and implemented at the facility including the installation of erosion control blankets in erodible slopes, covered conveyors, a dedicated water truck to spray traffic areas, manufactured aggregate stockpile gabion retention wall, sprinkler system, concrete swales, a 14.5 million gallon nodischarge coal and manufactured aggregate runoff pond, a 1.9 million gallon storm water pond, reinforced silt fencing with sediment-filtering geotextile and a sediment trap for the coal stockpiles. Once a year AES-PR will evaluate the necessity and feasibility of providing additional structural systems e.g., storm water detention or retention structures, vegetated swales, velocity dissipation

devices, etc. to handle and improve storm water run-off quality. Any new systems added will be described in this Section

F. Management of Runoff

AES-PR has constructed an internal system to capture and reuse storm water runoff and eliminate industrial water discharges from its facility including a 14.5 million gallon no-discharge pond that collects runoff from the coal / manufactured aggregate stockpiles for reuse and a 1.9 million gallon storm water pond. Other runoff structural controls include grading and aggregate stabilization of perimeter roads and open areas, a catch basin and inlet at the north east corner of the property to divert off-site run-on, a berm along the AES east boundary with CPC, a grated inlet—to intercept runoff before it leaves the facility at its southeast access gate, a berm along the north, south and west outside perimeter of industrial areas to prevent storm water discharges to the outside, a low wall along the perimeter of the cooling tower and a dedicated concrete channel within a larger concrete channel along a section of the AES west boundary to separate its storm water discharges from those of TAPI.

G. Salt Storage Piles

AES-PR does not have salt storage piles.

H. Employee Training

All employees that work in areas where significant industrial materials or activities are exposed to storm water or who are responsible for implementing activities necessary to meet the conditions of the 2015 MSGP, will be trained once per year in the components and goals of this Plan. Personnel responsible for the design, installation, maintenance and / or repair of controls, storage and handling of materials exposed to storm water, conducting inspections and monitoring and taking / documenting corrective

actions as required by this Plan will be trained. Documentation of these trainings will be kept with this Plan.

The first step in the implementation of this SWPPP will be to deliver training to personnel whose areas of responsibility can contribute to storm water contamination.

The training will include:

- · Overview of the SWPPP:
- Spill response procedures, good housekeeping, maintenance and material management practices;
- · Location of site controls and their maintenance;
- Pollution prevention procedures; and
- Conducting inspections, recording findings and taking corrective actions.

I. Non-Storm Water Discharges

As explained in Section III D. above, visual inspections of storm water outfalls during dry weather will be used to determine if non-storm water discharges exist. Only precipitation runoff or water that could be classified as storm water or non-storm water discharges authorized under the 2015 MSGP will be discharged from this facility.

J. Dust Generation and Vehicle Tracking

AES-PR has prepared and implemented a procedure to control the generation of dust and tracking of pollutants "SOP-CCP-004 Coal Combustion Residuals and Agremax™ Dust Control Plan". The following practices and techniques are among those that will be used to minimize fugitive dust and tracking of pollutants:

- Use of mobile sprinkler guns and water truck with water cannon at the manufactured aggregate stockpile area;
- Velocity limitations posting for vehicles moving within the facility;
- Immediate cleanup of spills in exposed areas to prevent washout by rain or offsite tracking of pollutants by vehicles;
- Removal of particulate matter from vehicles and equipment before movement onto paved roads;
- Load materials onto trucks in a manner that will prevent dropping of materials or debris onto roads:
- Secure and cover any materials to be transported to ensure that they
 do not become airborne during transportation; and
- Removal of material from paved roadways where material has been deposited.

K. Sector Specific Non-Numeric Effluent Limits

All non-numeric effluent limits for Sector O that are applicable to the AES-PR operations are discussed in the Good Housekeeping Section above. No pressure washing, blasting or painting of vessels, material storage, engine maintenance/ repair or dry dock activities take place at the AES-PR dock area.

V. Monitoring

The 2015 MSGP includes five types of analytical monitoring: quarterly benchmark, annual effluent limitations guidelines, state or tribal, impaired waters, and other monitoring. The following monitoring requirements apply to Sector O;

Quarterly Benchmark Monitoring (MSGP Part 6.2.1)

Sector- Parameter	Benchmark Monitoring
	Concentration
O- Total Iron	1.0 mg/L

Annual Effluent Limitations Guidelines Monitoring (MSGP Part 6.2.2)

	Sector-I	Parar	neter	Effluent Limit
O(Coal TSS	Storage	Pile	Discharges)-	50 mg/L
O(Coal pH	Storage	Pile	Discharges)-	6.0 min - 9.0 max

NOTE: Coal storage pile runoff pond is mixed with manufactured aggregate and cannot be discharged.

- State or Tribal Specific Monitoring (MSGP Part 6.2.3) None
- Impaired Waters Monitoring (MSGP Part 6.2.4) None- for the adjoining wetlands, these are not impaired.
- Other monitoring required by EPA (MSGP Part 6.2.5) Not applicable.

Applicable monitoring requirements apply to each outfall.

All required monitoring will be conducted in accordance with 40 CFR Part 136 analytical methods and performed on a storm event that results in an actual discharge that follows the preceding measurable storm event by at least 72 hours. For each monitoring event the date and duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and the time (in days) since the previous measurable storm event will be recorded using on-site meteorological stations. A minimum of one grab sample must be collected at each outfall within the first 30 minutes of a measurable storm event.

VI. Inspections and Corrective Actions

AES-PR is subject to the following types of inspections under the 2015 MSGP:

- Routine Facility Inspections
- · Quarterly Visual Assessments of Storm Water Discharges

The following inspection schedule and procedures will be followed:

- All inspections must be conducted by qualified personnel with at least one member
 of the SWPPT participating in the inspection and documented using Worksheets
 No. 4-5 of this SWPPP.
- Routine facility inspections will be performed quarterly, during periods when the facility is in operation, by qualified personnel and at least one member of the SWPPT and documented using Worksheet No. 4.
- At least once each calendar year, the routine facility inspection must be conducted during a period when a storm water discharge is occurring.
- Visual assessments will be performed quarterly i.e. four times a year or every three months. The quarterly visual assessment periods are January 1-March 31; April 1-June 30; July 1-September 30; October 1-December 31.
- Visual assessment samples must be from each outfall during the first 30 minutes of discharge, collected in a clean, clear glass, or plastic container and examined in a well-lit area.
- Visual inspections must be performed and documented using Worksheet No. 5.
- Any corrective action(s) required as a result of any inspection required by the MSGP must be performed consistent with Part 4 of the MSGP and documentation kept with this SWPPP.

VII. Documentation/Certification of Permit Eligibility Related to Endangered Species and Historic Places

The 2015 MSGP requires that documentation be included with the SWPPP demonstrating that the facility is eligible to discharge storm water under its terms because the discharge or storm water discharge activities will not jeopardize endangered or threatened species or critical habitats designated under the Endangered Species Act (ESA) that are in proximity to AES-PR or have an effect on a property that is listed or eligible for listing on the National Register of Historic Places. This documentation is included in the Attachments Section of this SWPPP.

VIII. Copy of Permit Requirement

The 2015 MSGP requires that a copy of the permit be included in the SWPPP. The "acknowledgement" letter received from the NOI Processing Center is not the permit; it is essentially only the equivalent of a "receipt" for a facility's "registration" (NOI) to use the general permit authorizing to discharge storm water subject to the terms and conditions of the 2015 MSGP. Requiring a copy of the MSGP ensures that AES-PR personnel will have ready access to all permit requirements. Copy of the 2015 MSGP is included in the Attachments Section of this SWPPP.

IX. Reporting and Recordkeeping

All Notices of Intent (NOIs), Notices of Termination (NOTs), Annual Reports, Discharge Monitoring Reports (DMRs) and other reporting information must be submitted electronically to EPA using their NPDES eReporting Tool (NeT) or NetDMR system, as applicable.

All monitoring data collected must be submitted no later than 30 days after receiving complete laboratory results for all monitoring outfalls for the reporting period. Changes in monitoring frequency as specified in Part 7.4 of the MSGP must also be reported to EPA through the submittal of a "Change NOI" form using NeT.

The Annual Report, including all the information required by Part 7.5 of the MSGP, must be submitted to EPA by January 30th for each year of permit coverage.

Non-compliances which may endanger health or the environment must be reported orally within 24 hours to U.S. EPA Region 2 Caribbean Environmental Protection Division (CEPD) NPDES Stormwater Program, followed by a written follow-up report within five days of the oral report.

Reportable quantity spills must be reported as soon as having knowledge of them as required under Part 2.1.2.4.

Planned facility changes that could significantly change the nature or significantly change the nature or significantly increase the quantity of pollutants discharged must be notified to EPA no fewer than 30 days prior to making the changes.

Advance notice must be given to EPA of any changes which can be anticipated to result in noncompliance with MSGP requirements. Reports of compliance or noncompliance with progress reports, requirements or compliance schedules of the MSGP must be submitted no later than 14 days following each schedule date.

Other noncompliance not reported in the Annual Report, Compliance Schedule Report or 24-hour report must be reported at the time that the monitoring reports are submitted.

Relevant facts or information that you become aware of as not submitted or incorrectly submitted in a NOI must be promptly submitted to EPA

AES-PR will retain copies of this SWPPP, including any modifications, additional documentation requirements pursuant to Part 5.5, including documentation related to corrective actions, all reports and certifications required by the 2015 MSGP, monitoring data, and records of all data used to complete the NOI to be covered by this permit, for a period of at least three years from the date that the facility's coverage under this permit expires or is terminated.

X. Management Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Signature

Name: Manuel Mata

Plant Manager

Date: 20/4/2017

Phone No. (787) 866-8117

Figure No. 1: Location Map

AES Puerto Rico, LP Storm Water Pollution Prevention Plan



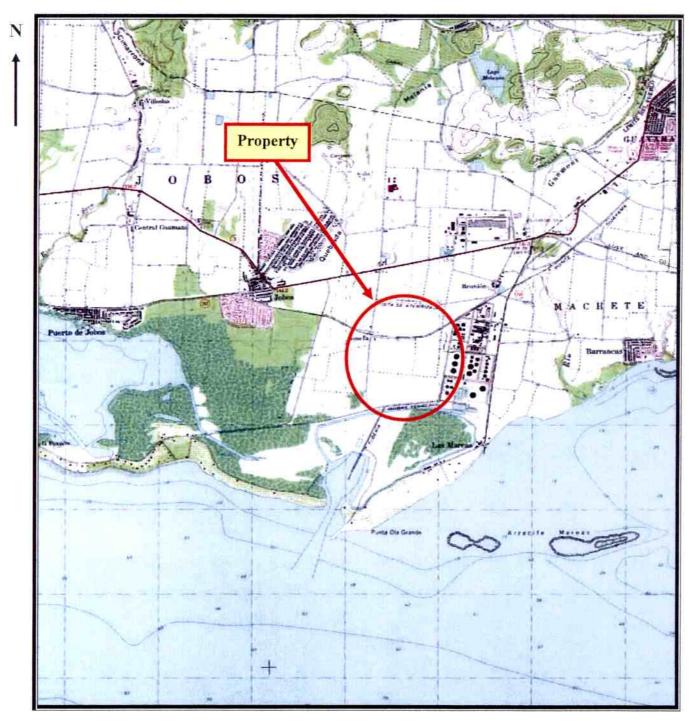


FIGURE 1 Site Location Map

Appendix No.1: Storm Water BMP's Maintenance Matrix



APPENDIX No.1 - STORM WATER BMP'S MAINTENANCE MATRIX

Storm Water East side next to switch yard up to power Remove sediment and gravel OPER Monthly	Task	BMP's	Area	Description	Area Owner	Frequency	Note
Storm Water East side next to switch yard up to power a concrete swale block area a concrete swale block area and between both improve sediment and gravel Concrete swale block area and between both limestone sediment and gravel OPER Starting west side of the cooling tower unit Remove sediment and gravel OPER Maintain the area clean from ash, Cleaning units. CDS/ESP Area Inside CDS/ESP floor area and between both limestone, hydrated lime and other Cleaning units. CDS/ESP Area Inside CDS/ESP floor area and between both limestone, hydrated lime and other Cleaning units. CDS/ESP Area Inside CDS/ESP floor area and between both limestone, hydrated lime and other cleaning units of the cooling tower both limestone and between both limestone, hydrated lime and other concrete swale flybrad ash silos Storm Water connect with the inactive coal pile storm connect with the inactive coal pile storm concrete channel front of active coal accumulation. Storm Water connect with the inactive coal pile storm accumulation. Storm Water channel water channel front of active coal accumulation. Storm Water channel front of the limestone building Remove Agremax, sediment and gravel to CCP accumulation. Mobile washing Before entrance of paved road Remove sediment and gravel to CCP and Cabion wall 10ft Agremax pile Remove sediment and maintain the area accumulation. And Communication and CCP Remove sediment and gravel to CCP Remove sediment and maintain the area accumulation. Before entrance of paved road Remove sediment and gravel to CCP Babion wall 10ft Agremax pile Remove sediment and street when the CCP CCP Remove sediment and still from read and concert and CCP Remove sediment and still from read and CCP CCP Remove sediment and still from read and CCP CCP Remove sediment and still from read and CCP CCP Remove sediment and still from read and CCP CCP Remove sediment and still from read and CCP CCP CCP Remove sediment and still from read and CCCP CCP Remove sediment and still from read account determined to the sediment and st				OPERATION			
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Street sweeper All paved roads ditches CCP				remove sediment and silt from road and			
	13	Street sweeper	All paved roads	ditches	CCP	Daily	

																						er		er			er
	Daily		Monthly		Weekly		Monthly	CHINESES IN		Monthly		Monthly		59	Quarterly		Annually		Quarterly			Every Transfer		Every Transfer			Every Transfer
	CCP		CCP		CCP		CCP/ENV			MH		M			ME		MH		MH			MH		MH/CCP			MH/CCP
Use of water truck to wet paved street to	avoid fugitive dust.	Remove sediment and gravel	accumulation.	Remove sediment and gravel	accumulation.	Remove sediment and gravel	accumulation.	MATERIAL HANDLING	Remove coal, sediment and gravel	accumulation.	Remove coal, sediment and gravel	accumulation.	and a second sec	inspect and replace membrane as	needed.	Clean and remove sediment and	vegetation from the channel.		Remove all sediment retained.	Maintain water suppression to avoid	fugitive dust during coal transfer to active	pile.	Clean the marine dock area each time	coal/agremax transfer finish		Maintain all conveyor cover and close all	transfer houses doors.
	All paved roads	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Next to guard shelter at gate #3		Next to Fly/Bed Ash silos	2	At sample point 002		South west concrete channel bordered the	inactive coal pile until sediment trap,	Starting in front of the active coal pile until	sediment trap			Along Inactive Coal Pile	100 yr. Diversion From north side of the cooling tower until	wetland.		Coal pile runoff pond			Active coal pile		Marine Dock area		Conveyor transfer system from dock area to Maintain all conveyor cover and close all	active piles.
Street water	suppression		Grating		Grating		Grating		Storm Water	concrete channel	Storm Water	concrete channel	Replacement	n.	membrane	100 yr. Diversion	Channel Cleaning	Sediment trap	cleaning		Coal transfer dust	suppression	Marine Dock Area	Cleaning	Conveyor coal	transfer	inspection
	14		15		16		17			18		19			20		21		22			23		24			25

			MAINTENANCE			THE TRANSPORTER TO THE
	Coal pile runoff					
	pond sediment		Measure amount of sediment and			
26	assessment	Coal pile runoff pond	determine if cleaning is needed.	MAINT/ENV	Annually	
	Storm water pond				The second secon	
	sediment		Measure amount of sediment and			
27	assessment	Storm water pond	determine if cleaning is needed.	MAINT/ENV	Annually	
	Storm water	.80				
	sampler	SP-001 (Marine Dock Area), SP-002 (Gate	Storm Water Sampling equipment		Quarterly or	
	eduibment	#3) and SP-003 (100 yr. Diversion Channel	components verification and		before rain	
28	maintenance	Outfall)	maintenance as needed.	MAINT/ENV	event	
	Replacement of					
20	catch basin inlet	Vot awa bur 00 awa 00 sweet	O many many many many many many many many	A SA SECTION AS A		
67	procession mens	_	Replace catch basin inlet protection.	MAINIZENV	Quarterly	
	Sample point	SP-001 (Marine Dock Area), SP-002 (Gate #3) and SP-003 (100 yr. Diversion Channel	Maintain sample point in compliance			
30	maintenance	Outfall)	with the MSGP	MAINT/ENV	Quarterly	
	Unpaved road					
	gravel		Stabilize all unpaved roads and areas			
31	stabilization	Around the plant	with gravel.	MAINT/ENV	Semiannualy	
No. of the last			WAREHOUSE			
	Off Site concrete	Off Site concrete North side of the plant property until guard	Remove sediment, gravel and landscape		After each	Landscape Contractor
32	channel	shelter.	material accumulation.	WAREHOUSE	maintenance	perform work
		2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
33	Off Site concrete channel	West side of the plant property until head wall	Remove sediment, gravel and landscape	WAREHOLICE	After each	Landscape Contractor
		Starting at Admin building parking until	Remove sediment and gravel	700000000000000000000000000000000000000	2000	V DW
34	Concrete ditch	maintenance shop	accumulation.	WAREHOUSE	Monthly	
		From east side of the property until Outfall.		LANDSCAPE		
35	Earth ditch	002 head wall	Landscape maintenance.	CONTRACTOR	Monthly	WAREHOUSE
	11 a a a a a a a a a a a a a a a a a a	From heavy equipment shop until 100 yr.	il d	LANDSCAPE		
36	Earth ditch	channel outfall	Landscape maintenance.	CONTRACTOR	Monthly	WAREHOUSE
	Maintain waste container with		Roll up covers installation at waste containers for scrap metal, regular waste			
37	roll up cover	Waste containers areas	and vegetation waste.	WAREHOUSE	Daily	

	のでは、大学の大学のできる。		WATER TREATMENT			
38	Cooling tower foam inspection	Cooling tower foam inspection Cooling tower east and west sides.	Inspect for foaming formation and possible overflow.	WT	Daily	
	Water treatment		All sludge containers should be maintained inside secondary			
39	sludge containers	sludge containers Water treatment area	containment	TW	Daily	
			Remove sediment and gravel			
40	Grating	Back of water treatment plant	accumulation.	W	Monthly	

Worksheet No. 1: Pollution Prevention Team Members

AES Puerto Rico, LP Storm Water Pollution Prevention Plan

Worksheet No.1

POLLUTION PREVENTION TEAM MEMBERS

Date: March 2017

Leader: Hector Avila	Title: Environmental Coordinator
	Office Phone: _787-866-8117 ext. 2266
Responsible for all environmental aspects of this	and Spill Prevention Control and Countermeasures Plan Administrator plan. Coordinate the development and implementation of this plan necessary records and reports. Ensure the facilities Structural and Nore implemented.
Members:	
(1) Pedro E. Labayen	Title: Storm Water Compliance Coordinator
	Office Phone: _787-866-8117 ext. 2215
coordinating applicable environmental training to the (iv) assisting employees and/or contractors with the structural BMP's (v) conducting comprehensive site made to address compliance violations or to make	amendment, and certification of the SWPPP; (ii) providing and/or Facility's personnel; (iii)conducting quarterly and routine inspections be installation, maintenance and improvements of non-structural and inspections; (vi) determining if appropriate actions have been timely improvements to BMP's; (vii) coordinating the pick-up and analysis or high this Order; and (ix) preparing and submitting Reports to EPA.
(2) Ramiro Rivera	Title: Maintenance Manager Office Phone: 787-866-8117 ext. 2208
Responsibilities: Ensure the implementation and deve	elopment of this plan.
(3) Elias Sostre	Title: Operations Manager
	Office Phone:787-866-8117 ext. 2257
Responsibilities: Ensure the facilities operations "Bes	st Management Practices" are followed.
(4) Marco Aresti	Title: Material Handling Team Leader Office Phone: 787-866-8117 ext. 2240
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	nent Practices" related to the receiving, storage and processing of coal,
limestone and ash are followed.	
(5) Carlos Gonzalez	Title: Coal Combustion Products Team Leader Office Phone: 787-866-8117 ext. 2239
Responsibilities: Ensure the facilities "Dust Control P	lan" and "Best Management Practices" related to the management,
processing and storage of coal combustion products	

Other Team members:

- 1. Henrick Roman Shared Services Supervisor
- 2. Carlos Alequin Maintenance Team Leader

The Team will be responsible for the development and implementation of this Plan. Other key responsibilities are:

- 1. Implementing all MSGP and SWPPP requirements.
- 2. Defining and agreeing upon an appropriate set of goals for the facility's storm water management program.
- Periodically update the SWPPP, whenever there is a change in the process design, construction, operation or
 maintenance of equipment and physical plant, which may have an effect on the potential for the discharge of pollutants
 to the environment.

Worksheet No. 2: List of Significant Spills and Leaks

Storm Water Pollution Prevention Plan AES Puerto Rico, LP

Completed by: While Hoff Title: SW Coupling Coad Date: Mach 30,2017 Worksheet No.2 LIST OF SIGNIFICANT SPILLS AND LEAKS

No significant spills and/or leaks of toxic or hazardous pollutants have occurred at the facility in the three years prior to the effective date of the permit.

Definition: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

		Preventive Measures Taken or contemplated				Preventive Measures Taken or contemplated				Preventive Measures Taken or contemplated		
	Response Procedure	Material No Longer Exposed to Storm water (True/False)			Response Procedure	Material No. Longer Exposed to Storm water (True/False)				Material No. Longer Exposed to Storm water (True/False)		
	Response	Amount of Material Recovered			Response	Amount of Material Recovered				Amount of Material Recovered		
		Reason				Reason	None			Reason	None	
	Description	Source, If Known			Description	Source, If Known			Description	Source, If Known		
	Des	Quantity			Des	Quantity			Des	Quantity		
		Type of Material				Type of Material				Type of Material		
		Location (as indicated on site map)				Location (as indicated on site map)				Location (as indicated on site map)		_
		Leak				Leak				Leak		
		Spill				Spill				Spill		
1st Year Prior		Date (month/day/year)		2nd Year Prior		Date (month/day/year)		3rd Year Prior		Date (month/day/year)		

Worksheet No. 3: Non-Storm Water Discharge Assessment Certification

NON-STORM WATER DISCHARGE ASSESSMENT AND CERTIFICATION (Complete once per year) Complete once per year) Complete once per year) Complete once per year) Complete once per year)	Completed by: <u>Pedro E. Labayen</u> Title: <u>Storm Water Compliance Coordinator</u> Date: <u>March 6, 2017</u>	
Outfall Directly Observed During the Test of Evaluate Test for the Presence of indicated on the site map) Method Used to Describe Results from Test for the Presence of Non-Storm Water Discharge	Identify Potential Significant Sources	Name of Person Who Conducted the Test or Evaluation
Visual No Water Discharge	Marine Dock Area	Pedro E. Labayen
Visual No Water Discha	rge Traffic of Material	Pedro E. Labayen
Visual No Water Discharge	Heavy Equipment Traffic	Pedro E. Labayen
CERTIFICATION		
I, Pedro E. Labayen, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	ments were prepared under my direction or properly gather and evaluate the information m or those persons directly responsible for nd belief, true, accurate, and complete. I am the possibility of fine and imprisonment for	ny direction or the information esponsible for omplete. I am prisonment for
A. Name & Official Title (type of print) Reduce E. Labayan (Stora Wales Completive Coordinate D. Date Signed	B. Area Code and Telephone No. (787) 866-8117 D. Date Signed	4118

Worksheet No. 4: Pollutants Source Identification

AES Puerto Rico, LP Storm Water Pollution Prevention Plan

		Worksheet No.4
POLLUTANTS SOURCE IDENTIFICATION	E IDENTIFICATION	Date: March 2017
This list identifies all storm water pollutant sources exposed to rainfall and/or runoff and describes existing management practices that address those sources. third column, lists BMP options that can be incorporated into the Plan to address remaining sources of pollutants.	sed to rainfall and/or runoff and describes existing mainto the Plan to address remaining sources of pollur	nanagement practices that address those sources. The carts.
Storm water Pollutant Sources	Existing Management Practices	Description of New BMP Options
Coal/ limestone/ash/ manufactured aggregate stockpiling and transfer	Wheel washers for trucks, water spray at truck loading for dry ash. Sweeping, water truck. Sprinkle for Agremax pile, dome for limestone storage, covered conveyor for coal transfer, gabions wall for agremax pile, coal pile runoff pond for agremax and coal runoff, sediment trap for agremax and coal conveyance system.	
Fuel and oil loading/unloading/ storage and transfer	Secondary containment for truck unloading and for fuel oil storage tank.	
Chemicals loading/unloading/storage and transfer	Secondary containment for all chemical unloading areas. Secondary containment for all chemical containers and bulk storage.	
Heavy equipment maintenance area	Oil separator	
Portable toilets	Anchors	
Herbicide application	Use as required by law and by certified person.	
Scrap yard and solid waste storage	Roll over tarps for bulk waste storage, covers for all waste containers, tarp to cover scrap materials.	
Cooling tower	Secondary containment for cooling tower, proper chemical application to avoid foaming.	
Limestone silo	Secondary containment.	
ESP and CDS Area	Secondary containment.	
Oil Storage	Secondary containment	
Water Treatment Area	Secondary containment	

AES Puerto Rico, LP Storm Water Pollution Prevention Plan

		Worksheet No.4
POLLUTANTS SOURCE ID	E IDENTIFICATION	Date: March 2017
This list identifies all storm water pollutant sources exposed to rainfall and/or runoff and describes existing manag third column, lists BMP options that can be incorporated into the Plan to address remaining sources of pollutants.	sed to rainfall and/or runoff and describes existing m I into the Plan to address remaining sources of pollut	rainfall and/or runoff and describes existing management practices that address those sources. The le Plan to address remaining sources of pollutants.
Storm water Pollutant Sources	Existing Management Practices	Description of New BMP Options
Non-storm water stream. Condensate from steam line.	Visual inspection and cap all drains.	
Settleable solids in concrete channel.	Sweep street and water truck wash. Stabilization for all slopes.	
Off-site tracking of sediments.	Wheel washer and truck cleaning before leaving the plant.	
Debris from landscape maintenance.	Maintenance and inspection protocol for contractors or facility personnel must adhere during landscape maintenance.	
Significant spills	SPCC Plan	
Wind-blown dust	Sprinkles, water truck, speed limits, aggregate cover for roads.	

Attachment No. 1: Notice of Intent



2015 NPDES Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity (MSGP) Forms

United States Environmental Protection Agency 1200 Pennsylvania Ave, NW Washington, DC 20460

Options can be an employed in Lannot be selected together of with any other option. Additionally, options A and E cannot be selected together. If you need to submit Facility Monitoring Changes that N 3. Discharge Information, SIC Code/Activity Code. Sectors/Subsectors Outfall Information	2. Please indicate if any of the below monitoring changes applies to your facility. Reporting any of the below changes to your monitoring requirements will trigger changes to your monitoring requirements in EPA's NetDMR system (e.g., if you report below that you are no longer subject to benchmark monitoring for all parameters, your NetDMR form will no longer be prepopulated with your benchmark monitoring requirements.
Options Carlo Dies minimally exclusive and Carriou be selected together. If you need to submit Facility Monitoring Changer that	remitments).
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1. Facility Operator Info (only for typographical errors or re-naming without change of ownership), Facility Name/Address, Other Permit Number, SWPPP Information, Estimated Area of Industrial Activity, MS4 Discharge, or Historic Preservation Criterion 2. Please indicate if any of the below monitoring changes applies to your facility. Reporting any of the below changes to your monitoring requirements in EPA's NetDMR system (e.g., if you report below that you are no longer subject to benchmark monitoring for all parameters, your NetDMR form will no longer be prepopulated with your benchmark monitoring requirements * Note that if you have changes to your monitoring requirements that are not described below, you must contact your Regional permitting authority who will be able to change your monitoring requirements In NetDMR Ontion C and Dare mutually acclusive and cannot be accounted to the contact of the contact your Regional permitting authority who will be able to change your monitoring requirements.	1. Facility Operator Info (only for typographical errors or re-naming without change of ownership), Facility Name/Address, Other Permit Number, SWPPP Information, Estimated Area of Industrial Activity, MS4 Discharge, or Historic Preservation Criterion
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Submission of this form requests authorization to discharge pursuant to the NPDES stormwater Multi- scutor General Pernit (MSG) pernit number identified in the Pernit information section of this NOI also constitutes not the third MSG) pernit number identified in the Pernit information section of this NOI also constitutes sorted that the operator identified in the Facility Dependent Information section of this NOI also constitutes not in authorization to authorized if you NOI is incomplete or inaccurate or if you were never eligible for permit coverage. AES PUERTO RICO, I.P. AES PUERTO RICO, I.P. Provide the existing NPDES ID for the Notice of Intent that you would like to update and click the Submit button. AES PUERTO RICO, I.P. Provide the existing NPDES ID for the Notice of Intent that you would like to update and click the Submit button. AES PUERTO RICO, I.P. Provide the existing NPDES ID for the Notice of Intent that you would like to update and click the Submit button. AES PUERTO RICO, I.P. PREMASSOB3-AES PUERTO RICO, I.P. PREMASSOB3-AES PUERTO RICO, I.P. PREMASSOB3-AES PUERTO RICO, I.P. AMPHORES ID. PREMOSTOBA-AES PUERTO RICO, I.P. Submitted facility Monitoring Changes (option 2) and 3 cannot be selected together on the same form, if you need to make both Facility Monitoring Changes (option 2) and changes to Discharge information, Silf for Activity Code, Sectors/Subsectors, or Outfall information (option 3), please submit two separate forms. Submit any perniting authority before submitting changes to potion 2 and changes to potion 3 before submitted reality Monitoring Changes (option 2) and changes to potion 3 before submitted reality Monitoring Changes to potion 2 and changes to your frontioning or all parameters, your Methods Regional permitting authority who will be able to change submitted that your benchmark monitoring for all parameters, your must contact your Regional permitting authority who will be able to change to purpor the change to your monitoring requirements is a not described	Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in the Facility Operator Information section of this form requests authorization to discharge pursuant to the NDES Stormwater Multi- Sector General Permit (MSGP) permit number identified in the Permit Information section of this form. Submission of this NOI also constitutes notice that the operator identified in the Facility Operator Information section of this form. To obtain authorization you must submit a complete or inaccurate or if you were newer eligible for permit coverage. Sector General Permit (MSGP) permit number identified in the Facility identified in the Facility information section of this form. To obtain authorization you must submit a complete and accurate NOI form. Deparator Name as Noted by the NOI Preparer AES PUERTO RICO, LP AES PUERTO RICO, LP Provide the existing NPDES ID for the Notice of Intent that you would like to update and click the Submit button. 2. NPDES ID* RESTORMENT OF CO. LP ACT PUERTO RICO, LP RESTORMENT OF CO. LP ACT PUERTO RICO, LP RESTORMENT OF CO. LP ACT PUERTO RICO, LP ACT PUERTO RICO, LP RESTORMENT OF CO. LP ACT PUERTO RICO, RP ACT PUERTO RICO, RP ACT PUERTO RICO, RP ACT PUERTO RIC
Change an Eskiring Notice of Intent Form (E.g. Make Changes to Facility information, Dischage information, Monitoring requirements, etc.) Studmission of this form requests sathorization to dischage pursuant to the WpDES Stormwater Multi-Sector General Permit Mill-Scripture ancies that the operator information section of this form meets the eligibility conditions of Part 1.1 of the MSSP permit number identified in the Facility obstrained in the Permit Mill-Sector General Permit MSSP permit Normation section of this form meets the eligibility conditions of Part 1.1 of the MSSP for the facility information section of this form. To obtain authorization, you must submit a complete and accurate of if you were never eligible for permit coverage. AES PUERTO RICO, IP AES PUERTO RICO, IP AND PROPES ID for the Notice of Intent that you would like to update and click the Submit button. AND PROPES ID FROM THE NOTICE of Intent that you would like to update and click the Submit button. AND PROPES ID FROM THE NOTICE of Intent that you would like to update and click the Submit button. AND PROPES ID FROM THE NOTICE of Intent that you would like to update and click the Submit button. AND PROPES ID FROM THE NOTICE of Intent that you would like to update and click the Submit button. AND PROPES ID FROM THE NOTICE of Intent that you would like to update and click the Submit button. AND PROPES ID FROM THE NOTICE of Intent that you would like to update and click the Submit button. AND PROPES ID FROM THE NOTICE of Intent that you would like to update and click the Submit button. AND PROPES ID FROM THE NOTICE of Intent that you would like to update and click the Submit button. AND PROPES ID FROM THE NOTICE ID FROM THE NOTICE ID FROM THE AUGUST I	Change an Existing Notice of Intent Form (e.g. Make changes to Facility Information, Discharge information, Monitoring requirements, etc.) Submission of this Notice of Intent Form (e.g. Make changes to Facility Information in Discharge information are existence of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi- Submission of this Notice of Intent (NOI) constitutes notice that the operator Information section of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility information section of this form meets the eligibility conditions of Part 1.1 of the MSGP for the facility information section of this form. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage. AES PUENTO RICO, LP AES PUENTO RICO, LP Operator Name (Organization Name)* AES PUENTO RICO, LP Operator Name (Sognization Name)* AES PUENTO RICO, LP Operator Name (Sognization Name)* AES PUENTO RICO, LP Operator Name (Sognization Name)* AES PUENTO RICO, LP Provide the existing NPDES ID for the Notice of Intent that you would like to update and click the Submit button. 2. NPDES ID* AES PUENTO RICO, LP PROSS 5093. AES PUENTO RICO, LP ACTIVITY Code, Sectors Subsectors, or Ourfall Information (option 3), please submit two separate forms. Submit any changes under option. 3 and changes (option 2) for this NPDES ID, please contact your EPA Regional permitting authority before submitting changes (option 2) for this NPDES ID, please contact your EPA Regional permitting authority before submitting changes under option. Sulpation Permitting authority Permit Number, SWIPPP Information, Estimated Area of Industrial Activity, MS4 Discharge contact preservation Criterion.
1. What action would you like to bake? Change an Existing Notice of Intent Form (e.g. Make changes to Racilly information, Dischaige information, Monitoring requirements, etc.) Long an Existing Notice of Intent Form (e.g. Make changes to Racilly information, Dischaige information, Monitoring requirements, etc.) Submission of this Notice and Intent Room (e.g. Make changes to Racilly John Room) Operator Intent (Monitoring Monitoring) Also Market as Monitoring (Monitoring) As Puter (Monitoring) As Minch yeaps of Changes and should like to update and click the Submit button. As Minch yeaps of Changes are your making Opinior 23 and a change of Indiana Association (Monitoring) As Minch yeaps of Changes are your making Opinior 23 and a solution (Monitoring) As Minch yeaps of Changes are your making Opinior 23 and a solution (Monitoring) As Minch yeaps of Changes are your making Opinior 23 and a solution (Monitoring) As Minch yeaps of Changes are your making Opinior 23 for this NPDES (D. please schemit two expanse forms, Submit the Monitoring Changes (opinior 2) for this NPDES (D. please contact your EPA Regional permitting authority before submitting fragilism (Monitoring Changes (opinior 2) for this NPDES (D. please contact your EPA Regional permitting authority before submitting fragilism (Monitoring Changes (opinior 2) for this NPDES (D. please contact your EPA Regional permitting authority before submitting fragilism (Monitoring Changes (opinior 2) for this NPDES (Monitoring) As Minch years of Changes are with a monitoring changes on your monitoring requirements will insighe to change your monitoring requirements that are not described below, you must contact your monitoring parage to	1. What action would you like to take? Change an Existing Notice of Intent Form (e.g., Make changes to Facility information, Discharge information, Monitoring requirements, etc.) Lange an Existing Notice of Intent Form (e.g., Make changes to Facility information, Discharge information, action of this form requests authorization to discharge pussant to the NPDES Stormwater Multi-Sector General Permit (MSCP) permit number identified in the Permit flormation section of this form meets the eligibility conditions of Part 1.1 of the MSCP for the facility identified in the Facility information section of this form. Submits are not authorization Name) AES PUERTO RICO, LP Operator Name (Signalization Name) AES PUERTO RICO, LP Provide the existing NPDES ID for the Notice of Intent that you would like to update and click the Submit button. 2. NPDES ID PROSSOBS. AES PUERTO RICO, LP Provide the existing NPDES ID for the Notice of Intent that you would like to update and click the Submit any changes under coption 3 before submitting Changes to Discharge Information, SIC Code/ Activity Code, Secrosylvescus, or Outfall information (option 3), please submit two separate forms. Submit any changes under option 3 before submitting changes (option 2) and changes to Discharge Information, SIC Code/ Activity Code, Secrosylvescus, or Outfall information (option 3), please submit two separate forms. Submit any changes under option 3 before submitting changes (option 2) and changes to Discharge Information, Information (option 3), fly our EPA Regional permitting authority before submitting changes (option 2) and changes to Discharge Information, Information (option 3), fly our have previously before submitting changes curder option 3. Information Provide Precipied Provides Provide Provides Provide
What action would you like to take?	1. What action would you like to take? Change an Existing Notice of Intent (ROI) constitutes notice that the operator identified in the Farility Operator Information, Monitoring requirements, etc.) Submission of this Notice of Intent (ROI) constitutes notice that the operator identified in the Facility Operator Information section of this form. To obtain authorization to discharge pursuant to the WDES Stormwater Multi- of his form meets the eligible for the term information section of this form. To obtain authorization to discharge pursuant to the WDES Stormwater Multi- operator Same (Ciganization Name) Operator Same (Ciganization Name) ALS PUBRTO RICO_IP Operator Name (Ciganization Name) ALS PUBRTO RICO_IP Operator Name as Noted by the NOI Preparer ALS PUBRTO RICO_IP Operator Name (Ciganization Name) ALS PUBRTO RICO_IP Provide the existing NPDES (Dr the Notice of Intent that you would like to update and click the Submit button. 2. NPDES ID PROSS SECONS ACTION S
Note: This is a "smart form", as you fill out the form, additional questions will appear that you will need to answer. What action would you like to back"	Note: This is a "smart form;" as you fill out the form, additional questions will appear that you will need to answer. 1. What action would you like to take? Change an Existing Notice of Intent from (e.g. Make changes to Facility Information, Discharge information, Monitoring requirements, act.) Submission of this Notice of Intent Notice Notice Intent

2. Select the state/territory where your facility is located.	3. Is your facility located on Indian Country lands?			
PR	O Yes O No			
4. Are you requesting coverage as a "federal operator" as defined in Appendix A? •	ied in Appendix A? 🏲	O Yes	es O No	0
5. Are you a new discharger or a new source as defined in Appendix A?	endix A?•	O Yes	•	No
5a. Have stormwater discharges from your facility been covered previously under an NPDES permit?	d previously under an NPDES permit?*	● Yes	0	° N
Saa. Provide your most current NPDES ID (i.e., permit tracking	number) If you had coverage under EPA's MSGP 2008 or the NPD!	5aa. Provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP 2008 or the NPDES permit number if you had coverage under an EPA individual permit		
PRROSBL65				
6. Do you directly discharge to any of the waters of the U.S. tha Water) (See Appendix L)? Your project will be considered to discharges that enter a storm sewer system prior to discharge, system.*	6. Do you directly discharge to any of the waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resour Water) (See Appendix L)? Your project will be considered to discharge to a Tier 3 water if the first water of the US to which you discharge is the waterbody that receives the stormwater discharge, the first water of the US to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system.*	6. Do you directly discharge to any of the waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water. For Water) (See Appendix L.)? Your project will be considered to discharge to a Tier 3 water if the first water of the U.S to which you discharge is identified by a state, tribe, or EPA as a Tier 3 water. For discharges that enter a storm sewer system prior to discharge, the first water of the U.S to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system.*	•	o N
7. Does your facility directly discharge to a Federal CERCLA site directly into the site through its own conveyance, or through a	7. Does your facility directly discharge to a Federal CERCLA site listed in Appendix P? For the purposes of this permit, a permittee discharges to a Federal CERCLA site if the discharge flows directly into the site through its own conveyance, or through a conveyance owned by others, such as a municipal separate storm sewer system.	ee discharges to a Federal CERCLA site if the discharge flows \rightarrow Yes	•	o N
8. Has the Stormwater Pollution Prevention Plan (SWPPP) been prepared in advance of filing this NOI, as required? *	n prepared in advance of filing this NOI, as required? *	● Yes	0	o N
9. By indicating "Yes", I confirm that I understand that the MSG 1.1.3. Any discharges not expressly authorized in this permit coissuance of this permit via any means, including the Notice of discharges requiring NPDES permit coverage other than the all another NPDES permit.	9. By indicating "Yes", I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges sited in Part 1.1.3. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.1.2 and 1.1.3 will be discharged, they must be covered uncanother NPDES permit.*	9. By indicating "Yes", I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges fisted in Part 1.1.3. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.1.2 and 1.1.3 will be discharged, they must be covered under another NPDES permit.*	0	o _N
10. Master Permit Number PRR050000				
B. Facility Information				
Identify the applicable sector and subsector of your primary industrial activity (See A. MSGP, and the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity	ndustrial activity (See Appendix D) that best represents the produce or 2-letter Activity Code:	Identify the applicable sector and subsector of your primary industrial activity (See Appendix D) that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in the MSGP, and the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code:	jaged, as define	ed in the
15, Sector	16. Activity Code	de•		
SECTOR O: STEAM ELECTRIC GENERATING FACILITIES	SE: Steam Elec	SE: Steam Electric Generating Facilities, including coal handling sites		
17. Subsector				
O1: Steam Electric Generating Facilities, including coal handling sites	ling sites			
Check to add an additional Sector and Subsector.				
22. Is your facility presently inactive and unstaffed? • O Yes O No				

C: Discharge Information

40 CFR Part/Subpart: Part 423	art: Part 423		Eligible Discharges: Coal generating facilities	Eligible Discharges: Coal pile runoff at steam electric generating facilities	Affected MSGP Sector: O	New Source Date: 11/19/1982, 10/8/1974¹	Does your facility have any discharges subject to this effluent limitation guideline? Yes No
Outfalls 4. List all of the st	tormwater	outfalls from your facility	r. Each outfall must be	identified by a unique 3-digit	D (e g. 001 002) or a 4-digit ID A	and how obtained the last the control of the contro	Outfalls 4. List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID for a finit ID also movinds the lattering and leading to decine and leading
outfall.					ים וביאי סטוי ססק סו שיר שושונו וכי ז	uso provide the latitude and long	jitude in decimal degrees for each
A. Outfall ID*		B. Latitude (Decimal Degrees) *	rees) •	C. Longitude (Decimal Degrees)	es)*		
100	+	17.9369		66,1591			
					(This button will prepopula associated with your outfall Information that is returned	(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)	
If for any reason th	he Lookup F	Receiving Water Information	n button does not prep	opulate your form with receiving	If for any reason the Lookup Receiving Water information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.	ually enter the information on you	form.
Outfall Section							
1. Provide the nar (You may edit the	me of the fir name of th	 Provide the name of the first water of the U.S that receives stormwater directly (You may edit the name of the water of the U.S. that was returned if incorrect.) 	eives stormwater direct s returned if incorrect.)	tly from the outfall and/or from ti	1. Provide the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to. (You may edit the name of the water of the U.S. that was returned if incorrect.)	2	
Las Mareas Harbor	or						
2. Is the receiving • Yes	ing water listed No	2. Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL?	list and in need of a TM	4DL? •			
4. List the pollutar	nts that are	4. List the pollutants that are causing the impairment:					
Please select the c	cause group	Please select the cause group and pollutant for which the waterbody is impaired:	te waterbody is impaire	ig:			
Cause Group *				Pollutant *			
OIL AND GREASE	10.1			Oll & Grease			
Please select the c	cause group	Please select the cause group and pollutant for which the waterbody is impaired:	ne waterbody is impaire	ij			
Cause Group				Pollutant *			
TEMPERATURE				Temperature, water deg. centigrade	tigrade		
Please select the c	cause group	Please select the cause group and pollutant for which the waterbody is impaired:	ne waterbody is impaire	;p.			
Cause Group *				Pollutant •			
TURBIDITY				Turbidity			
Please select the c	Sause group	Please select the cause group and pollutant for which the waterbody is impaired:	ne waterbody is impaire	p			
Cause Group				Pollutant *			
PH/ACIDITY/CAUSTIC CONDITIONS	JSTIC COND	SNOITIONS		Нф			

3. Identify ... one following Effluent Limitation Guideline(s) apply to any of your discharges

Outfalls 4. List all of the stormwaster outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the lattrade and longitude in decimal degrees for each outfall to the stormwaster outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the lattrade and longitude in decimal degrees for each outfall. (This button will preciously water information button does not prepopulate your form with neceiving waters information, you must manually enter the information on your form. (Discuss) (Normay edit the information button does not prepopulate your form with neceiving waters information, you must manually enter the information on your form. (Normay edit the information on your form.) (Normay edit the value of the U.S. that was returned if incorrect.)* (Normay edit the value of the U.S. that was returned if incorrect.)* (Normay edit the value of the U.S. that was returned if incorrect.)* (Normay edit the value of the U.S. that was returned if incorrect.)* (Normay edit the value of the U.S. that was returned if incorrect.)* (Normay edit the value of the U.S. that was returned if incorrect.)* (Normay edit the value of the U.S. that was returned if incorrect.)* (Normay edit the value of the U.S. that was returned in order of a TMDI.)* (Normay edit the value of the U.S. that was returned in the value of the U.S. that was returned in the value of the U.S. that was returned in the value of the U.S. that was returned in the value of the U.S. that was returned in the value of the U.S. that was returned in the value of the U.S. that was returned in the value of the U.S. that was returned the value of the U.S. that was returned to the U
antially Identical to Any Outfalls Listed Above? Treason the Lookup Receiving Water Information button does not prepopulate you get the name of the first water of the U.S. that was returned if incorrect.) The name of the water of the U.S. that was returned if incorrect.) That have not been completed for this receiving waterbody? That been completed for this receiving waterbody? No That been completed for this receiving waterbody?
D. Substantially Identical to Any Outfalls Listed Above? Ves No If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form. Dutfall Section 1. Provide the name of the first water of the U.S. that was returned if incorrect.) We lead of Yes No O Yes No Outfalls Outfalls Outfalls Outfalls Outfalls Outfalls D. Substantial Section Outfalls Outfall
If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form. Outfall Section 1. Projucts the name of the Us, that was returned if incorrect.) Wetland 2. Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? 3. Has a TMDL been completed for this receiving waterbody? Outfalls Outfalls Outfalls Outfalls Outfalls
A. Outfall ID • B. Latitude (Decimal Degrees) • C. Longitude (Degrees) • C. Longitude (D
(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)
D. Substantially Identical to Any Outfalls Listed Above? • O Yes O No
If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.

Outfall Section	_
1. Provide the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to. (You may edit the name of the water of the U.S. that was returned if incorrect.)	
Wetland	
2. Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes No	
3. Has a TMDL been completed for this receiving waterbody? • O Yes No	

Provide the following information about your outfall latitude longitude.

6. Horizontal Reference Datum NAD83 5. Latitude/Longitude Data Source * GPS 7. Does your facility discharge into a Municipal Separate Storm Sewer System (MS4)?

O Yes

ě •

8. Do you discharge to any of the waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water) (See Appendix L)?

°Z • O Yes

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information, the information submitted is, to the best of my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. 40 CFR 122.22

ro Labayen

NeT@epa.gov

Saturday, October 03, 2015 7:34 PM om: ent:

Pedro Labayen; lee.won@epa.gov; bosques.sergio@epa.gov; lescure.nasrin@epa.gov;

emily@avanticorporation.com; farris.erika@epa.gov; Christiane@avanticorporation.com;

EPA Multi-Sector General Permit (MSGP) Authorization is Active – AES Puerto Rico, L.P., iubject:

NPDES ID: PRR053093, NeT Submission ID: MSGP-2851

AcceptedNewNOIReceipt.pdf Attachments:

2015-10-03

Your Notice of Intent (NOI) requesting coverage for AES Puerto Rico, L.P., Road #3 km. 142 Jobos Ward Guayama PR 00784 under EPA's Multi-Sector General Permit (MSGP) has been accepted and authorization to discharge under the MSGP became effective at the conclusion of your 30-day waiting period, on 2015-10-03.

For tracking purposes, the following NPDES ID has been assigned to your NOI: PRR053093. Attached to this email, you will find a copy of your completed NOI form. To access your NOI in NeT, please visit: https://cdx.epa.gov/epa_home.asp.

you know, the MSGP requires you to have developed a Stormwater Pollution Prevention Plan (SWPPP) Prior to submitting your NOI. The MSGP also includes specific requirements for implementing control measures (e.g., minimize exposure, good housekeeping, maintenance, spill prevention and response), conducting self-inspections and visual assessments of your discharges, taking corrective actions, and conducting staff training. You must comply with any specific requirements applicable to your industrial sector(s) in Part 8 and any state/tribal-specific requirements in Part 9 (see http://water.epa.gov/polwaste/npdes/stormwater/EPA-Multi-Sector-General-Permit-MSGP.cfm). You are also required to submit an Annual Report in accordance with Part 7.5 of the MSGP that will contain the results from your past year's routine facility inspections, quarterly visual assessments, and corrective actions. Annual Reports must be submitted to EPA through NeT.

The MSGP includes five types of required analytical monitoring, one or more of which may apply to your discharge:

- Quarterly benchmark monitoring (see Part 6.2.1 and Part 8);
- Annual effluent limitations guidelines monitoring (see Part 6.2.2 and Part 8);
- State- or tribal-specific monitoring (see Part 6.2.3 and Part 9);
- Impaired waters monitoring (see Part 6.2.4); and
- Other monitoring as required by EPA (see Part 6.2.5).

Monitoring requirements in the MSGP (i.e., parameters required to be monitored and sample frequency) will be prepopulated on your electronic Discharge Monitoring Report (DMR) in EPA's NetDMR system, which is accessed at http://www.epa.gov/netdmr/. Where you have determined that no monitoring requirements apply to your discharge, there is no need to access the NetDMR system. In order to obtain access to this system, you must complete the electronic signature process. Please refer to the following guidance for information about submitting monitoring reports through NetDMR: http://water.epa.gov/polwaste/npdes/stormwater/StormwatereNOI-System-for-EPAs-MultiSector-General-Permit.cfm.



2015 NPDES Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity (MSGP) Forms

United States Environmental Protection Agency 1200 Pennsylvania Ave, NW Washington, DC 20460

Note: This is a "smart form"; as you fill out the form, additional questions will appear that you will need to answer.

ermit Information

	authorization to discharge pursuant to the NPDES Stormwater Multit the operator identified in the Facility Operator Information section horization, you must submit a complete and accurate NOI form.					O Yes O No
1. What action would you like to take? • File a New Notice of Intent Form	Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in the Facility Operator information section of this form requests authorization to discharge pursuant to the NPDES Stormwater Multi-Sector General Permit (MSGP) permit number identified in the Permit information section of this NOI also constitutes notice that the operator identified in the Facility identified in the Facility information section of this form. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorization, you must submit a complete and accurate NOI form. Operator Name (Organization Name)	Operator Name as Noted by the NOI Preparer	AES Puerto Rico, L.P.	2. Select the state/territory where your facility is located * 3. Is vour facility located on Indian Country Indian	PR O Yes No	4. Are you requesting coverage as a "federal operator" as defined in Appendix A? •

ia. Have stormwater discharges from you saa. Provide your most current NPDES ID PRROSBL65	5a. Have stormwater discharges from your facility been covered previously under an NPDES permit? • 5aa. Provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPP PRR05BL65	permit? • under EPA's MSGP 2008 or	 Saa. Have stormwater discharges from your facility been covered previously under an NPDES permit? Saa. Provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP 2008 or the NPDES permit number if you had coverage under an EPA individual permit. 	• Yes	8 C
. Provide your most current NPDES ID R05BL65	(i.e., permit tracking number) if you had coverage	under EPA's MSGP 2008 or	he NPDES permit number if you had coverage under an EPA individual p)
ROSBL65				sermit *	
	THE REPORT OF THE PROPERTY OF				
 6. Do you directly discharge to any of the Water) (See Appendix L)? Your project wil discharges that enter a storm sewer syste system. 	waters of the U.S. that are designated by the state I be considered to discharge to a Tler 3 water if th m prior to discharge, the first water of the US to w	or tribal authority under it e first water of the US to wh hich you discharge is the w	6. Do you directly discharge to any of the waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding Natural Resource Water) (See Appendix L)? Your project will be considered to discharge to a Tier 3 water if the first water of the US to which you discharge is identified by a state, tribe, or EPA as a Tier 3 water. For discharges that enter a storm sewer system prior to discharge, the first water of the US to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system.*	or O Yes	§ ⊙
oes your facility directly discharge to a	7. Does your facility directly discharge to a Federal CERCLA site listed in Appendix P? For the purposes of this permit, a permittee discharges to a F directly into the site through its own conveyance, or through a conveyance owned by others, such as a municipal separate storm sewer system.	e purposes of this permit, a rs, such as a municipal sepa	7. Does your facility directly discharge to a Federal CERCLA site listed in Appendix P? For the purposes of this permit, a permittee discharges to a Federal CERCLA site if the discharge flows directly into the site through its own conveyance, or through a conveyance owned by others, such as a municipal separate storm sewer system.*	O Yes	o ⊙
as the Stormwater Pollution Preventic	8. Has the Stormwater Pollution Prevention Pian (SWPPP) been prepared in advance of filin	ing this NOI, as required? •		• Yes	% O
Any discharges "yes", I confirm that I und Any discharges not expressly authorized isovered by the permit or by any other me allowable stormwater and non-stormwat 10. Master Permit Number	9. By indicating "Yes", I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stor Any discharges not expressly authorized under the MSGP are not covered by the MSGP and they cannot become authorized by disclosure to EPA and/or a stateward by the permit or by any other means (e.g., in the Stormwater Pollution Prevention Plan or during an inspection). If any discharges requiring NPDES parties allowable stormwater and non-stormwater discharges listed in Parts 1.1.2 and 1.1.3 will be discharged, they must be covered under another NPDES permit. PPRR050000	ble stormwater discharges I they cannot become auth Plan or during an inspectio discharged, they must be c	9. By indicating "Yes", I confirm that I understand that the MSGP only authorizes the allowable stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges in Part 1.1.3. Any discharges not expressly authorized under the MSGP are not covered by the MSGP and they cannot become authorized by disclosure to EPA and/or a state via this Notice of Intent to be covered by the permit or by any other means (e.g., in the Stormwater Pollution Prevention Plan or during an inspection). If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.1.2 and 1.1.3 will be discharged, they must be covered under another NPDES permit.	• Yes	<u>\$</u>
t: Facility Operator Information 1. Operator Name (Organization Name)					
2. Street					
Road #3 km. 142 Jobos Ward					
3. Supplemental Address					
4. City •	5. State *	6. Zip Code	7. Facility County or Similar Govt. Subdivision		
Guayama	PR	00784	Guayama		
8. Phone (10-digits, No dashes)	9. Extension 10. E-Mail *				
7878668117	manuel.mata@aes.com				
Operator point of contact information					
11. First Name	12. Middle Initial 13. Last Name*		14. Professional Title		
Manuel	Mata		Plant Manager		

Page 3 of 9

O.CFR Part/Subpart: Part 423		Eligible Discharges: Coal pile runoff at steam electric generating facilities	Affected MSGP Sector: O	New Source Date: 11/19/1982, 10/8/1974¹	Does your facility have any discharges subject to this effluent limitation guideline?
outfalls					
. List all of the stor utfall.	List all of the stormwater outfalls from your facility. Each outfall must be identif utfall.		ID (e.g., 001, 002) or a 4-digit ll). Also provide the latitude and lor	ied by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each
A. Outfall ID .	B. Latitude (Decimal Degrees)	C. Longitude (Decimal Degrees)			
100	+ 17.9369	66.1591	Lookup Rece	Lookup Receiving Waters Information	Delete Outfall
			(This button will prepop associated with your ou information that is retu	(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)	
for any reason the	for any reason the Lookup Receiving Water Information button does not prepopulate	ot prepopulate your form with receivin	g waters information, you must n	your form with receiving waters information, you must manually enter the information on your form.	ur form.
Outfall Section					
. Provide the name You may edit the n	1. Provide the name of the first water of the U.S that receives stormwater directly from (You may edit the name of the water of the U.S. that was returned if incorrect.)	er directly from the outfall and/or from t orrect.)	the outfall and/or from the MS4 that the outfall discharges to.	s to.	
Las Mareas Harbor					
2. Is the receiving wate	2. Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL.? • • • • • • • • • • • • • • • • • • •	i of a TMDL? •			
. List the pollutant	4. List the pollutants that are causing the impairment:				
lease select the ca	Please select the cause group and pollutant for which the waterbody is impaired:	impaired:			
Cause Group	The second secon	Pollutant*			
OIL AND GREASE		Oil & Grease		Delete Pollutant	
Please select the ca	Please select the cause group and pollutant for which the waterbody is impaired:	impaired:			
Cause Group		Pollutant*			
TEMPERATURE		Temperature, water deg. centigrade	ıtigrade	Delete Pollutant	
Please select the ca	Please select the cause group and pollutant for which the waterbody is impalred:	impaired:			
Cause Group *		Pollutant*			
TURBIDITY		Turbidity		Delete Pollutant	
Please select the ca	Please select the cause group and pollutant for which the waterbody is impaired:	impaired:			
Cause Group *		Pollutant*			
PH/ACIDITY/CAUSTIC CONDITIONS	STIC CONDITIONS	Hď		Delete Pollutant	
Add Impa	Add Impairment Pollutant Associated with this Waterbody	erbody			

ed for this receiving waterbody?	Outfalls 4. List all of the stormwater outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g., 001, 002) or a 4-digit ID. Also provide the latitude and longitude in decimal degrees for each outfall.	17:9431 Lookup Receiving Waters Information Delete Outfall	(This button will prepopulate the receiving water information associated with your outfall on your form. You may edit the information that is returned if you believe it is incorrect)	If for any reason the Lookup Receiving Water Information button does not prepopulate your form with receiving waters information, you must manually enter the information on your form.	Outfall Section 1. Provide the name of the first water of the U.S. that receives stormwater directly from the outfall and/or from the MS4 that the outfall discharges to. (You may edit the name of the water of the U.S. that was returned if incorrect.)* Werland	2. Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes No	-d for this receiving waterbody? *	outfall must be id	de (Decimal Degrees) • C. Longitude (Decimal Degrees) •	T7.9454 Lookup Receiving Waters Information (This button will prepopulate the receiving water information associated with your outfall on your define the information that is returned if you believe it is incorrect.)	
Has a TMDL been completed for this receiving waterbody? Yes No	Outfalls 4. List all of the stormwater outfalls from your faoutfall. A Outfall.	+	D. Substantially identical to Any Ourfalls Listed Above? • O Yes O No	ny reason the Lookup Receiving Water Inform	Outfall Section 1. Provide the name of the first water of the U.S. that (You may edit the name of the water of the U.S. that we wanter of the U.S. that water of the U.S. that we wanter of the U.S. that was not the U	8. Is the receiving water listed as impaired on the 30 Yes	3. Has a TMDL been completed for this receiving waterbody? Yes No	Outfalls 4. List all of the stormwater outfalls from your fac outfall.	A. Outrail ID* B. Latitude (Decimal	17.9454	D. Substantially Identical to Any Outfalls Listed Above? O Yes O No

Ipmer aling operations or material storage.

delivered by truck. Fly ash is removed from the facility by dry bulk tank trailers. Manufactured aggregate is transferred by overland covered conveyor systems from the power plant to the dock facility and loaded into Bulk coal and limestone are delivered by marine vessel to the dock facility at the Las Mareas Harbor and transferred by a covered overland conveyor system to the power plant stockpiles area. Limestone can also be ocean vessels for marine transportation or removed from the facility by dump trucks. The marine dock receives approximately four coal shipments per month and four limestone shipments per year for the energy production operations. Manufactured aggregate is shipped off-site at least once per year.

The areas of the facility where potential significant spills and leaks could contribute pollutants to the site's storm water includes the water treatment chemical storage areas, heavy equipment maintenance area, boiler / All other plant consumables such as diesel fuel, oils, sulfuric acid, sodium hydroxide, lime, soda ash and urea are delivered by truck and stored in tanks or containers located within secondary containment areas. turbine lube oil tanks and reservoirs, electrical switchyard, oil drum storage shed, fuel unloading and storage area, urea storage tanks and air pollution control chemicals storage area.

B. List the pollutants(s) or pollutant constituent(s) associated with each industrial activity exposed to stormwater that could be discharged in stormwater and/or in any authorized non-stormwater discharges listed in Part

The main pollutants that could be discharged through the existing storm water system are: suspended solids, pH, metals, herbicides, fecal coliforms, nutrients and hydrocarbons.

Describe the control measures you will employ to comply with the non-numeric technology-based effluent limits required in Part 2.1.2 and Part 8, and any other measures taken to comply with the requirements in Part 2.2 Water Quality-Based Effluent Limitations (see Part 5.2.4.1).

Exposure Minimization

containers will be placed inside secondary containment at all times. Limestone silos are contained within a dike to prevent that materials gain access to storm water drains. CDS/ESP equipment is contained within a dike to avoid material gain access to storm water drains. All equipment and materials stored outside will be covered with a storm resisting covering. Chemicals containers/totes will be stored indoors or in secondary · Coal, Ilmestone and manufactured aggregate are transported in covered conveyors; Limestone is stockpiled indoors; Oil drums are stored indoors; Heavy equipment and vehicle maintenance is performed under cover; waste storage containers exposed to storm water will be covered with lids or rollup covers. Zero Liquid Discharge salts waste containers will be placed inside secondary containment at all times. Clarifier sludge waste Grading, berming, or curving in process and material storage areas; Spills and leaks are promptly cleaned using dry methods; Drip pans and absorbents are placed under or around leaky vehicles and equipment. All

Good Housekeeping

All areas that are potential sources of pollutants will be kept clean using measures such as sweeping at regular intervals, keeping materials in order and labeled, and storing materials in appropriate containers. Some additional procedures specific to the industrial sectors of the facility will include:

of all above-ground tanks and ancillary equipment that may be exposed to storm water, Oil bearing equipment in the switchyard is provided with secondary containment; inspection of manufactured aggregate and fly spills; Impact, spill and overflow protection for above-ground liquid storage tanks; Spill Prevention, Control and Countermeasures (SPCC) Plan for bulk storage tanks; Routine visual Inspections of the structural Integrity stockpile area; inspecting arriving delivery vehicles to ensure the overall integrity of the body or container and that they are not leaking; Containment curbs at fuel and chemical loading and unloading areas to contain ash hauling vehicles for proper load cover, gate seal, and overall integrity of the container body, Immediate cleaning of spills in ash loading areas; Draining fluids from equipment prior to storage at the scrap yard; Use of covered dumpsters in good condition for waste storage prior to pickup; Regular sweeping, cleaning and maintenance of all swales / drainage channels and impervious areas where particulate matter, dust or debris • Control of fugitive dust emissions from coal handling areas and reduction of tracking of coal dust through the use of covered conveyors and washing the tires of vehicles in designated facilities before they leave the may accumulate e.g. loading and unloading and vehicle traffic areas. Removal of vegetative material from concrete swales and ditches once landscape maintenance is completed.

AES-PR has a preventive maintenance program that includes all mechanical equipment and storm water management devices at the facility.

intercepted and retained prior to discharge); Inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures, resulting in discharge of pollutants to storm water; Some of the elements included in the program are: Identification of equipment, systems and facility areas that must be inspected; Schedule for periodic inspections; Maintenance of complete records; Work-order generation to track and fix equipment problems; Inspection and maintenance (repair and cleaning) of storm water management devices (e.g. dock PVC drain header and sediment trap) to ensure that solids are inspection and replacement of storm water catch basin filters; Maintenance of facility equipment and systems; and Visual inspection of areas. All BMPs identified in this SWPPP will be maintained in effective operating condition.

D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2),*

The following inspection schedule and procedures will be followed:

- · All inspections must be conducted by qualified personnel with at least one member of the SWPPT participating in the inspection and documented
- · Routine facility inspections will be performed quarterly, during periods when the facility is in operation, by qualified personnel and at least one member of the SWPPT and documented
 - At least once each calendar year, the routine facility inspection must be conducted during a period when a storm water discharge is occurring.
- · Visual assessments will be performed quarterly i.e. four times a year or every three months. The quarterly visual assessment periods are January 1-March 31; April 1-June 30; July 1-September 30; October 1-December

1. Accessment camples must be from each outfall during the first 30 minutes of discharge, collected in a clean, clear glass, or plastic container and examined in a well-lit area.	
The following schedule for good housekeeping and maintenance will be followed: Remove sediment and gravel accumulation at storm water concrete channels around power generation area minimum on a monthly basis. Remove sediment and gravel accumulation at storm water concrete channels around power generation area and maintained clean from ash, imestone, hydrated lime and other materials on a weekly basis. Maintenance of concrete channels, grating, wheel washer and truck washing station at the coal combustion products area on a weekly basis, including replace gravel and remove gravel to maintain it operational. Daily use of the dust suppression system from Agremax pile. Daily use of wether postection on a monthly basis. Daily use of water truck to wet paved street to avoid fugitive dust. Quarterly maintenance of the sediment and and silt fence around the coal pile storage area. Quarterly storm water sampling equipment components verification and maintenance as needed. Quarterly storm water sampling equipment components verification and maintenance. Provide off site concrete channel cleaning after landscaping maintenance. Daily maintain waste container with roll up cover. All sludge containers should be maintained inside secondary containment.	
angered Species Protection	100
. Using the instructions in Appendix E of the MSGP, under which endangered species criterion listed in Part 1.1.4.5 are you eligible for coverage under this permit?	
Criterion C – Discharges and discharge-related activities are not likely to adversely affect listed species and critical habitat	
mplementation of controls approved by EPA and the Services).	
. What federally-listed species or federally-designated critical habitat are located in your "action area." •	
Puerto Rican Broad-winged Hawk, Puerto Rican Plain Pigeon, Puerto Rican Sharp-shinned Hawk, Yellow-shouldered Blackbird. Palo de Jazmin, Uvillo. West Indian Manatee Hawksbill Sea Turtle, Leatherback Sea Turtle, Puerto Rican Boa Elkhorn Coral Critical Habitat Staghorn Coral Critical Habitat	
s. Using the Criterion C Eligibility Form, check which of the following is applicable to your facility and answer any corresponding questions.	
I submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and agree to implement any controls that were determined by EPA to be necessary to ensure that my discharges and/or discharge-related activities will have no likely adverse affects on listed species and critical habitat.	
submitted my completed Criterion C Eligibility Form to EPA at least 30 days prior to submitting this NOI and have not been notified of any additional controls necessary to ensure no likely adverse affects on listed species and critical habitat.	
Date your Criterion C Eligibility Form was sent to EPA (in DD/MM/YYYY format)*	
21 Jul 2015	

E. Historic Preservation	
1. If your facility is not located in Indian country lands, is your facility located on a property of religious or cultural significance to an Indian tribe? Yes No	
2. Using the instructions in Appendix F of the MSGP, under which historic properties preservation criterion listed in Part 1.1.4.7 are you eligible for coverage under this permit	mit*
Criterion A - No subsurface stormwater controls	
Certification information	
Certifier E-Mail *	
manuel.mata@aes.com	
∑ Confirm Certifier: manuel.mata@aes.com •	

Attachment No. 2: Permit Eligibility Documentation

- -Endangered Species
 - -Historic Places

Criterion C Eligibility Form

Instructions:

In order to be eligible for coverage under criterion C, you must complete the following form and you must submit it to EPA following the instructions in Section VII a <u>minimum of 30 days prior to filling your NOI for permit coverage.</u> After you submit your form, you may be contacted by EPA with additional measures (e.g., additional stormwater controls or modifications to your discharge-related activities) that you must implement in order to ensure your eligibility under criterion C.

If after completing this worksheet you cannot make a determination that your discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or designated critical habitat, you must submit this completed worksheet to EPA, and you may not file your NOI for permit coverage until you receive a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Note: Much of the information needed for this form can be obtained from your draft SWPPP which will be needed when you file your NOI.

SECTION I. OPERATOR, FACILITY, AND SITE LOCATION INFORMATION.

		overton Information
1)		Operator Name: AES Puerto Rico
		Point of Contact
	:50	First Name: Manuel Last Name: Mata
		Phone Number: 787-866-8117
		E-mail: manuel.mata@aes.com
2)	Fac	cility Information
	a)	Facility Name: AES Puerto Rico
	b)	Check which of the following applies:
		☐ I am seeking coverage under the MSGP as a new discharger or as a new source
		☐ I am seeking coverage under the MSGP as an existing discharger and my facility has modifications to its discharge characteristics (e.g., changes in discharge flow or area drained, different pollutants) and/or discharge-related activities (e.g., stormwater controls)
		Indicate the number of years the facility has been in operation: years
		Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage:
		□ I am seeking coverage under the MSGP as an existing discharger and there are no modifications to my facility.
		Indicate the number of year the facility has been in operation:13years
		Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: PRR05BL65

Address 2:			
City: Guayam	State: PR	Zip Code: 00784	
) Identify the pri	mary industrial sector to be covered unc	der the 2015 MSGP:	
SIC Code	1911 or Primary Activity Code		
Sector O	and Subsector O1		
) Identify the sec	ctors of any co-located activities to be c	overed under the 201r MSC	GP:
	ctors of any co-located activities to be c Subsector_Q1	overed under the 201r MSC	GP:
Sector Q	Market Co. Co.	overed under the 201r MSC	GP:
Sector Q	Subsector Q1	overed under the 201r MSC	GP:
Sector Q Sector Sector	Subsector <u>Q1</u> Subsector	overed under the 201r MSC	GP:
Sector Q Sector Sector Sector	Subsector Q1 Subsector Subsector	overed under the 201r MSC	GP:

AES Puerto Rico (AES-PR) is a hituminous cost-fueled power plant that generates and selfs electricity to the Puerto Rico Electric Power Authority (PREPA) with a total power generation capacity of 454 Megawatts (MW).

The facility is composed of a coal-fired power plant and an ancillary marine dock that is not configuous to the main power plant. Bulk coal and limestone are delivered by marine vessel to the dock facility at the Las Mareas Harbor and transferred overland by a covered-elevated conveyor system to the power plant stockplies area.

There are three storm water outfails at AES-PR; outfail serial D01 at the marine dock area, outfail 002 located at the southeast corner of the power plant and outfail serial 003 at the west side of the power plant. The storm water discharges of the main facility drain south towards an onsite wetland area; the dock facility drains directly to Bahia Las Mareas.

3) Receiving Waters Information

facility:

List all the s	stormwater ou	ffalls from your fac	cility.	For each outfall, provide the fo water information:				
Outfall ID	Design Capacity (if known)	Latitude (decimal degrees)	Longitude (decimal degrees)	Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to	Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water) marine water			
001		_17.9369	-66.1591	Las Mareas Harbor				
002		_17.9431	-66.1492	Wetland	wetland			
003		_17.9454	-66.1538	Wetland	wetland			
		'						

SECTION II. ACTION AREA

Ensure that your action area is described in Attachment 1, as required in Step 2.

SECTION III. LISTED SPECIES AND CRITICAL HABITAT LIST

Ensure that the listed species and critical habitat list is included in <u>Attachment 2</u>, as required in <u>Step 3</u>.

Review your species list in Attachment 2, choose one of the following three statements, and follow the corresponding instructions:

The species list includes only terrestrial species and/or their designated critical habitat. No aquatic or aquatic-dependent species or their critical habitat are present in the action area. You may skip to Section IV of this form. You are not required to fill out Section V.

The species list includes only aquatic and/or aquatic-dependent species and/or their designated critical habitat. No terrestrial species or their critical habitat are present in the action area. You may skip to Section V of this form and are not required to fill out Section IV.

Note: For the purposes of this permit,

"terrestrial species" would <u>not</u> include animal or plant species that 1) spends any

portion of its life cycle in a waterbody or

wetland, or 2) if an animal, depends on

wading birds, amphibians, and certain

prey or habitat that occurs in a waterbody or wetland. For example, shorebirds,

reptiles would not be considered terrestrial

species under this definition. Please also be

aware that some terrestrial animals (e.g.,

certain insects, amphibians) may have an

 \boxtimes The species list includes both terrestrial and aquatic or aquatic-dependent species and/or their designated critical habitat. You must fill out both Sections \underline{V} and \underline{V} of this form.

SECTION IV. EVALUATION OF DISCHARGE-RELATED ACTIVITIES EFFECTS

Note: You are only required to fill out this section if your facility's action area contains terrestrial species and/or their designated critical habitat. If your action area only contains aquatic and/or aquatic-dependent species and/or their designated critical habitat, you can skip directly to Section V.

Most of the potential effects related to coverage under the MSGP are assumed to occur to aquatic and/or aquatic-dependent species. However, in some cases, potential effects to terrestrial species and/or their critical habitat should be considered as well from any discharge-related activities that occur during coverage under the MSGP. Examples of discharge-related activities that could have potential effects on listed terrestrial species or their critical habitat include the storage of materials and land disturbances associated with stormwater management-related activities (e.g., the installation or placement of stormwater control measures).

A. Select the applicable statement(s) below and follow the corresponding instructions:

There are no discharge-related activities that are planned to occur during my coverage under the MSGP. You can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or their critical habitat in your action area, you must skip to <u>Section V</u>, Evaluation of Discharge Effects, below.
- If there are no aquatic or aquatic-dependent species you may skip to <u>Section VI</u> and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in <u>Section VII</u> of this form. You may select criterion C on your NOI form and may submit your NOI for permit coverage 30 days after you have submitted this <u>Criterion C Eligibility Form</u>. You must also provide a description of the basis for the criterion you selected on your NOI form, <u>including the species and critical habitat list(s) in your action area</u>, as well as any other documentation supporting your eligibility. You must also include this completed <u>Criterion C Eligiblity Form</u> in your SWPPP.

Criterion C Eligibility Form

☐ There are discharge-related activities planned as part of the proposal. Describe your discharge-related activities in the following box and continue to (b) below.
Describe discharge-related activities:
B. In order to ensure any discharge-related activities will have no likely adverse effects on listed species and/or their designated critical habitat, you must certify that all the following are true:
 Discharge-related activities will occur: on previously cleared/developed areas of the site where maintenance and operation of the facility are currently occurring or where existing conditions of the area(s) in which the discharge-related activities will occur precludes its use by listed species (e.g., work on existing impervious surfaces, work occurring inside buildings, area is not used by species), and
 if discharge-related activities will include the establishment of structures (including, but not limited to, infiltration ponds and other controls) or any related disturbances, these structures and/or disturbances will be sited in areas that will not result in isolation or degradation of nesting, breeding, or foraging habitat or other habitat functions for listed animal species (or their designated critical habitat), and will avoid the destruction of native vegetation (including listed plant species).
☐ If vegetation removal (e.g., brush clearing) or other similar activities will occur, no terrestrial listed species that use these areas for habitat would be expected to be present during vegetation removal.
If all the above are true, you can conclude that your discharge-related activities will have no likely adverse effects, and:
 If there are any aquatic or aquatic-dependent species and/or critical habitat in your action area, you must skip to <u>Section V</u>, Evaluation of Discharge Effects, below.
- If there are no aquatic or aquatic-dependent species you may skip to Section VI and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in Section VII of this form. You may select criterion C on your NOI and may submit your NOI for permit coverage 30 days after you have submitted this completed form. You must also provide a description of the basis for the criterion you selected on your NOI form, Including the species and critical habitat list(s), and any other documentation supporting your eligibility. You must also include this completed Criterion C Eligibility Form in your SWPPP.
 If any of the above are <u>not</u> true, you cannot conclude that your discharge-related activities will have no likely adverse effects. You must complete the rest of this form (if applicable), and must submit the form to EPA for assistance in determining your eligibility for coverage.

Criterion C Eligibility Form

SECTION V. EVALUATION OF DISCHARGE EFFECTS

Note: You are only required to fill out this section if your facility's action area includes aquatic and/or aquatic-dependent species and/or their critical habitat.

In this section, you will evaluate the likelihood of adverse effects from your facility's discharges. The scope of effects to consider will vary with each facility and species/critical habitat characteristics. The following are examples of discharge effects you should consider:

- Hydrological Effects. Stormwater discharges may adversely affect receiving waters from
 pollutant parameters such as turbidity, temperature, salinity, or pH. These effects will vary
 with the amount of stormwater discharged and the volume and condition of the receiving
 water. Where a stormwater discharge constitutes a minute portion of the total volume of
 the receiving water, adverse hydrological effects are less likely.
- Toxicity of Pollutants. Pollutants in stormwater may have toxic effects on listed species and
 may adversely affect critical habitat. Exceedances of benchmarks, effluent limitation
 guidelines, or state or tribal water quality requirements may be indicative of potential
 adverse effects on listed species or critical habitat. However, some listed species may be
 adversely affected at pollutant concentrations below benchmarks, effluent limitation
 guidelines, and state or tribal water quality standards. In addition, stormwater pollutants
 identified in Part 5.2.3.2 of your SWPPP, but not monitored as benchmarks or effluent
 limitation guidelines, may also adversely affect listed species and critical habitat.

As these effects are difficult to analyze for listed species, their prey, habitat, and designated critical habitat, this form helps you to analyze your discharges and make a determination of whether your discharges will have likely adverse effects and whether there are any additional controls you can implement to ensure no likely adverse effects.

A: Evaluation of Pollutants and Controls to Avoid Adverse Effects. In this section, you must document all of your pollutant sources and pollutants expected to be discharged in stormwater. You must also document the controls you will implement to avoid adverse effects on listed aquatic and aquatic-dependent species. You must include specific details about the expected effectiveness of the controls in avoiding adverse effects to the listed aquatic-and aquatic-dependent species. Attach additional pages if needed.

Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species. Include information supporting

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species. Include information supporting why the control(s) will ensure no adverse effects, including any data you have about the effectiveness of the control(s) in reducing pollutant concentrations. You may also attach photos of your controls to this form.
e.g., vehicle and equipment fueling	e.g., Oil & grease Diesel Gasoline TSS Antifreeze	e.g., • Fueling operators (including the transfer of fuel from tank trucks) will be conducted on an impervious or contained pad or under cover • Drip pans will be used where leaks or spills of fuel can occur and where making and breaking hose connections • Spill kit will be kept on-site in close proximity to potential spill areas • Any spills will be cleaned-up immediately using dry clean up methods • Stormwater runoff will be diverted around fueling areas using diversion dikes and curbing

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Coal/ limestone/ash/ /manuf actured aggregate stockpiling and transfer.	Particulate matter, total suspended solids, pH, nutrients, metals	Coal, limestone and manufactured aggregate are transported in covered conveyors; Limestone is stockpiled indoors; Grading, berming, or curving in process and material storage areas; Limestone silos are contained within a dike to prevent that materials gain access to storm water drains; Inspection of manufactured aggregate and fly ash hauling vehicles for proper load cover, gate seal, and overall integrity of the container body; Immediate cleaning of spills in ash loading areas.
Chemicals loading/unloading/stor age and transfer.	pH, nutrients	Chemicals containers/totes will be stored indoors or in secondary containment.
Exposed equipment, scrap and wastes	Hydrocarbons, metals	 Heavy equipment and vehicle maintenance is performed under cover; Drip pans and absorbents are placed under or around leaky vehicles and equipment; All waste storage containers exposed to storm water will be covered with lids or rollup covers.
Fuel and oil loading/unloading/ storage and transfer	Hydrocarbons	Oil drums are stored indoors and in secondary containment Spills and leaks are promptly cleaned using dry methods; Spill Prevention, Control and Countermeasures (SPCC) Plan for bulk storage tanks; Routine visual inspections of the structural integrity of all above-ground tanks and ancillary equipment that may be exposed to storm water; Oil bearing equipment in the switchyard is provided with secondary containment.
Erosion and Sediment	Particulate matter, total suspended solids, pH, nutrients, metals	Installation of arcsion control blankets in erodible slopes, A dedicated water truck to spray traffic areas, Manufactured aggregate stockpile gabion retention wall, Sprinkler system, A 4.5 million gallon no-discharge coal-manufactured aggregate runoff pond, A 1.9 million gallon storm water pond, Reinforced silt fancing with sediment-filtering geotextile and a sediment trap for the coal stockpiles, The dock area has a collection and treatment system consisting of a contained concrete driveway provided with a PVC pipe collection header and one sediment trap, Inspection and replacement of storm water catch basin filters, Regular sweeping, cleaning and maintenance of all swales / drainage channels and impervious areas.

Criterion C Eligibility Form Page 6 of 11

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Dust Generation and Vehicle Tracking	Particulate matter, total suspended solids	Use of a sprinkler system and water truck at the coal and manufactured aggregate stockpile areast. Velocity limitations posting for vehicles moving within the facility; Immediate cleanup of spills in exposed areas to prevent washout by rain or offsite tracking of pollutants by vehicles; Removal of particulate matter from vehicles and equipment before movement onto paved roads; Load materials onto trucks in a manner that will prevent dropping of materials or debris onto roads. Secure and cover any materials to be transported to ensure that they do not become airborne during transportation; Removal of material from paved roadways where material has been deposited; Use of mechanical street sweeper to remove debris, sediment, feed ingredients, feed and other materials from the Facility and Use of wheel washing station for material delivering trucks before leaving the Facility.
Waste, Garbage and Floatable Debris	Particulate matter, total suspended solids, metals	 All waste materials accumulated onsite will be stored in a neat, orderly manner or in appropriate covered containers; Portable toilets will be located at least 25 feet away from storm water conveyance structures and anchored; If needed, wind barriers, trash interceptors or other similar devices will be used to intercept waste, garbage and debris that are blown by wind or floated by storm water runoff.
o a level necessary to avoid a lesignated critical habitat. Yo	adverse effects on aquation on must check in <u>Section \</u> st complete the rest of the	termination that any of your pollutants will be controlled ic and/or aquatic-dependent listed species and their VI that you are unable to make a determination of no e form. You must submit your completed form to EPA for

Criterion C Eligibility Form

B. Analysis of Effects Based on Past Monitoring Data. Select which of the following applies to your facil	
\square I have no previous monitoring data for my facility because there are no applicable monitoring rector my facility's sector(s).	
☐ I have no previous monitoring data for my facility because I am a new discharger or a new source subject to monitoring under the 2015 MSGP. You must provide information to support a conclusion the facility's discharges are not expected to result in benchmark or numeric effluent limit exceedances the adversely affect listed species or their critical habitat:	il your
☐ My facility has not had any exceedances under the 2008 MSGP of any required benchmark(s) or the contract of	numeric
effluent limits.	
My facility has had exceedances of one or more benchmark(s) or numeric effluent limits under the MSGP, but I have addressed them during my coverage under the 2008 MSGP, or in my evaluation of avoid adverse effects in (A) above. Describe all actions (including specific controls) that you will imple ensure that the pollutants in your discharge(s) will not result in likely adverse effects from future exceed	ement to
AES Puerto Rico L.P. is under an Administrative Order On Consent Docket Number CWA-02-2015-3102 to attend the benchmark exceedances. Description for all act implemented controls were documented and submitted as per AOC requirements.	ions and
Check if your facility has had exceedances of one or more benchmarks or numeric effluent limits 2008 MSGP and you have not been able to address them to avoid adverse effects from future exceedify you are a new discharger or a new source but you are not sure if you can avoid adverse effects from exceedances. You must check in <u>Section VI</u> that you are unable to make a determination of no likely effects. You must submit your completed form to EPA for assistance in determining your eligibility for a you may not file your NOI for permit coverage until you are able to make a determination that your owill avoid adverse effects on listed species and designated critical habitat.	m possible adverse overage.
ECTION VI VERIFICATION OF PRELIMINARY EFFECTS DETERMINATION	
ased on Steps I – V of this form, you must verify your preliminary determination of effects on pecies and designated critical habitat from your discharges and/or discharge-related activ	listed ities :
Following the applicable Steps in $I - V$ above, I have made a preliminary determination the	nat my

discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

 \square Following the applicable Steps in I – V above, I am <u>not</u> able to make a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Page 8 of 11 Criterion C Eligibility Form

A STATE OF THE STA
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations,
First Name, Middle initial Last Name: MANUEL MATA MATA
Signature: Date 07/21/2015
E-mail: MANUEL MATA@AES COM
SECTION VII CRITERION C ELIGIBILITY FORM SUBMISSION INSTRUCTIONS
You must submit this completed form to EPA at msapesa@epa.gov , including any attachments and any additional information that demonstrates how you will avoid or eliminate adverse effects to listed species or critical habitat (e.g., specific controls you will implement to avoid or eliminate adverse effects). Any missing or incomplete information may result in a delay of your coverage under the permit.
If you have made a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this form must be submitted a minimum of 30 days prior to submitting your NOI for permit coverage under criterion C. Please note that during either the 30-day Criterion C Eligibility Form review period prior to your NOI submission, or within 30 days after your NOI submission and before you have been authorized for permit coverage, EPA may advise you that additional information is needed, or that there are additional measures you must implement to avoid likely adverse effects.
If you are unable to make a preliminary determination that your discharges and/or discharge- related activities are not likely to adversely affect listed species and critical habitat, this worksheet must be submitted to EPA, but you may not file your NOI for permit coverage until you have received a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Attachment 1

Include a map **and a written description** of the action area of your facility, as required in <u>Step 2</u>. You may choose to include the map that is generated from the FWS' on-line mapping tool IPaC (the Information, Planning, and Consultation System) located at http://ecos.fws.gov/ipac/.

The written description of your action area that accompanies your action area map must explain your rationale for the extant of the action area drawn on your map. For example, your action area written description may look something like this:

The action area for the (name of your facility)'s stormwater discharges extends downstream from the outfall(s) in (name of receiving waterbody) (# of meters/feet/kilometers/miles). The downstream limit of the action area reflects the approximate distance at which the discharge waters and any pollutants would be expected to cause potential adverse effects to listed species and/or critical habitat because (insert rationale). The action area does/does not extend to the (name of receiving waterbody)'s confluence with (name of confluence waterbody) because (insert rationale).

Note that you action area written description will be highly site-specific, depending on the expected effects of your facility's dishcarges and discharge-related activities, receiving waterbody characteristics, etc.

The action area for AES Puerto Rico stormwater discharges from Outfall 1 extends to the Las Mareas Harbor's confluence with the Caribbean Sea. For Outfalls 2 and 3 it is limited to a wetland area within the south portion of the AES property.

See FWS Map and FWS / NMFS Lists on Attachment 2.

Attachment 2

List or attach the listed species and critical habitat in your action area on this sheet, as required in Step 3. You must include a list for applicable listed NMFS and FWS species and critical habitat. If there are listed species and/or critical habitat for only one Service, you must include a statement confirming there are no listed species and/or critical habitat for the other Service. For FWS species, include the full printout from your IPaC query. Note: If your Official Species List from the USFWS indicated no species or critical habitat were present in your action area, include the full consultation tracking code at the top of your Official Species List in your NOI submittal in the question "Provide a brief summary of the basis for the criterion selected in Appendix E." If an Official Species List was not available on IPaC, list the contact date and name of the Service staff with whom you corresponded to identify the existence of any USFWS species or critical habitat present in your action area.

See attached FWS Report and NMFS List.

AES-Puerto Rico

IPaC Trust Resource Report

Generated July 21, 2015 12:06 PM MDT



US Fish & Wildlife Service

IPaC Trust Resource Report



Project Description

NAME

AES-Puerto Rico

PROJECT CODE

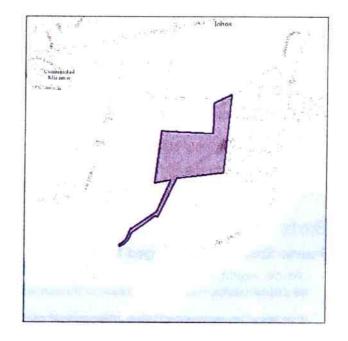
7EXC2-CDTAN-CBLJ2-Q7YKG-6UWTVQ

LOCATION

Guayama County, Puerto Rico

DESCRIPTION

No description provided



U.S. Fish & Wildlife Contact Information

Species in this report are managed by:

Caribbean Ecological Services Field Office

Post Office Box 491 Boqueron, PR 622-491 (787) 851-7297

Endangered Species

Proposed, candidate, threatened, and endangered species that are managed by the <u>Endangered Species Program</u> and should be considered as part of an effect analysis for this project.

This unofficial species list is for informational purposes only and does not fulfill the requirements under <u>Section 7</u> of the Endangered Species Act, which states that Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action." This requirement applies to projects which are conducted, permitted or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can be obtained by returning to this project on the IPaC website and requesting an Official Species List from the regulatory documents section.

Birds

Puerto Rican Broad-winged Hawk Buteo platypterus brunnescens

Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06Y

Puerto Rican Plain Pigeon Columba inornata wetmorei

Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B049

Puerto Rican Sharp-shinned Hawk Accipiter striatus venator

Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06Z

Yellow-shouldered Blackbird Agelaius xanthomus

Endangered

CRITICAL HABITAT

There is final critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B05T

Flowering Plants

Palo De Jazmin Styrax portoricensis

Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q2R6

Uvillo Eugenia haematocarpa

Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q2A2

Mammals

West Indian Manatee Trichechus manatus

Endangered

CRITICAL HABITAT

There is final critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=A007

Reptiles

Hawksbill Sea Turtle Eretmochelys imbricata

Endangered

CRITICAL HABITAT

There is final critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=C00E

Leatherback Sea Turtle Dermochelys coriacea

Endangered

CRITICAL HABITAT

There is final critical habitat designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=C00F

Puerto Rican Boa Epicrates inornatus

Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=C00P

Critical Habitats

Potential effects to critical habitat(s) within the project area must be analyzed along with the endangered species themselves.

Elkhorn Coral Critical Habitat Final designated

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=P001#crithab

Staghorn Coral Critical Habitat Final designated

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=P000#crithab

Migratory Birds

Birds are protected by the <u>Migratory Bird Treaty Act</u> and the Bald and Golden Eagle Protection Act.

Any activity which results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service (1). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

You are responsible for complying with the appropriate regulations for the protection of birds as part of this project. This involves analyzing potential impacts and implementing appropriate conservation measures for all project activities.

Antillean Mango Anthracothorax dominicus Year-round	Bird of conservation concern
Audubon's Shearwater Puffinus Iherminieri Season: Breeding	Bird of conservation concern
Black Swift Cypseloides niger Season: Breeding https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FW	Bird of conservation concern
Black Rail Laterallus jamaicensis Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B09A	Bird of conservation concern
Bridled Quail-dove Geotrygon mystacea Year-round	Bird of conservation concern
Caribbean Coot Fulica caribaea Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B083	Bird of conservation concern
Gull-billed Tern Gelochelidon nilotica Season: Wintering	Bird of conservation concern
Least Bittern Ixobrychus exilis Year-round	Bird of conservation concern
Least Tern Sterna antillarum Season: Breeding	Bird of conservation concern
Lesser Yellowlegs Tringa flavipes Season: Wintering	Bird of conservation concern
Limpkin Aramus guarauna Year-round	Bird of conservation concern
Loggerhead Kingbird Tyrannus caudifasciatus Year-round	Bird of conservation concern
Mangrove Cuckoo Coccyzus minor Year-round	Bird of conservation concern
Masked Duck Nomonyx dominicus Year-round	Bird of conservation concern

Bird of conservation concern

Season: Wintering

Prairie Warbler Dendroica discolor

Puerto Rican Oriole Icterus dominicensis

Bird of conservation concern

Year-round

Puerto Rican Vireo Vireo latimeri

Bird of conservation concern

Year-round

Ruddy Duck Oxyura jamaicensis jamaicensis Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B084

Semipalmated Sandpiper Calidris pusilla

Bird of conservation concern

Season: Wintering

Short-eared Owl Asio flammeus Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HD

Smooth-billed Ani Crotophaga ani Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DS

Solitary Sandpiper Tringa solitaria Bird of conservation concern

Season: Wintering

Swainson's Warbler Limnothlypis swainsonii Bird of conservation concern

Season: Wintering

White-cheeked Pintail Anas bahamensis

Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0C9

White-crowned Pigeon Patagioenas leucocephala

Bird of conservation concern

Year-round

https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B076

Wilson's Plover Charadrius wilsonia Bird of conservation concern

Year-round

Worm Eating Warbler Helmitheros vermivorum

Bird of conservation concern

Season: Wintering

Yellow-breasted Crake Porzana flaviventer

Bird of conservation concern

Year-round

Refuges

Any activity proposed on <u>National Wildlife Refuge</u> lands must undergo a 'Compatibility Determination' conducted by the Refuge. If your project overlaps or otherwise impacts a Refuge, please contact that Refuge to discuss the authorization process.

Refuge data is unavailable at this time.

Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes.

Project proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate <u>U.S. Army Corps of Engineers District</u>.

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Wetland data is unavailable at this time.



Puerto Rico's Threatened and Endangered Species

For more information on listed species please visit: http://www.nmfs.noaa.gov/pr/species/esa/listed.htm http://sero.nmfs.noaa.gov/protected_resources/index.html

Marine Mammal Species	Scientific Name	Status
blue whale	Balaenoptera musculus	Endangered
fin whale	Balaenoptera physalus	Endangered
humpback whale	Megaptera novaeangliae	Endangered
sei whale	Balaenoptera borealis	Endangered
sperm whale	Physeter macrocephalus	Endangered
Sea Turtle Species		
green sea turtle	Chelonia mydas	Threatened ¹
hawksbill sea turtle	Eretmochelys imbricata	Endangered
Kemp's ridley sea turtle	Lepidochelys kempii	Endangered
leatherback sea turtle	Dermochelys coriacea	Endangered
loggerhead sea turtle	Caretta caretta	Threatened ²
Fish Species scalloped hammerhead shark	Sphyrna lewini	Threatened ³
Invertebrate Species		
pillar coral	Dendrogyra cylindrus	Threatened
rough cactus coral	Mycetophyllia ferox	Threatened
lobed star coral	Orbicella annularis	Threatened
mountainous star coral	Orbicella faveolata	Threatened
boulder star coral	Orbicella franksi	Threatened
elkhorn coral	Acropora palmata	Threatened
staghorn coral	Acropora cervicornis	Threatened

Critical Habitat Designations

For final rules, maps, and GIS data please visit: http://sero.nmfs.noaa.gov/maps_gis_data/protected_resources/critical_habitat/index.html

Green sea turtle: Coastal waters surrounding Culebra Island, Puerto Rico.

Hawksbill sea turtle: Coastal waters surrounding Mona and Monito Islands, Puerto Rico.

Elkhorn and Staghorn corals: There are four designated marine areas in Florida, Puerto Rico, and the U.S. Virgin Islands (i.e., St. John /St. Thomas, and St. Croix).

¹ Florida's breeding population is listed as endangered.

² Northwest Atlantic distinct population segment.

³ Central and southwest Atlantic distinct population segment.



Species Proposed for Listing Under the Endangered Species Act

Federal action agencies are encouraged to include species proposed for listing under the Endangered Species Act (ESA) in their Section 7 consultation requests. Species that are proposed for listing are those which have been found to warrant federal protection under the ESA, but a final rule formally listing the species has not yet published. By including these species in your Section 7 consultation, reinitiating consultation after the ESA listing is finalized may not be necessary.

For more information on species proposed for listing under the ESA, please visit: http://www.nmfs.noaa.gov/pr/species/esa/candidate.htm#proposed

am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
First Name, Middle Initial, Last Name: MANUEL MATA
Title: PRESIDENT
Signature:
E-mail: MANUEL.MATA@AES.COM
SECTION VII CRITERION C ELIGIBILITY FORM SUBMISSION INSTRUCTIONS
You must submit this completed form to EPA at msgpesa@epa.gov , including any attachments and any additional information that demonstrates how you will avoid or eliminate adverse effects to listed species or critical habitat (e.g., specific controls you will implement to avoid or eliminate adverse effects). msgpesa@epa.gov , including any attachments and any additional information that demonstrates how you will avoid or eliminate adverse effects? Any missing or incomplete information may result in a delay of your coverage under the permit.
If you have made a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this form must be submitted a minimum of 30 days prior to submitting your NOI for permit coverage under criterion C. Please note that during either the 30-day Criterion C Eligibility Form review period prior to your NOI submission, or within 30 days after your NOI submission and before you have been authorized for permit coverage, EPA may advise you that additional information is needed, or that there are additional measures you must implement to avoid likely adverse effects.
If you are unable to make a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this worksheet must be submitted to EPA, but you may not file your NOI for permit coverage until you have received a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Attachment No. 4: Record Of Ammendments



	Record of Amendments AES Puerto Rico, L.P.	
DATE OF AMMENDMENT	DESCRIPTION OF TECHNICAL AMENDMENT	AMENDMENTS MADE BY
Telesia.	Original document prepared January 2003 (PRR05B149).	The same of the sa
Friday, August 20, 2004	Pollution Prevention Team Members updated. Revised the monthly inspection checklist. Updated the materials inventory (oil and chemicals list). Site drawings replaced. Certification pages re- signed/updated.	William G. Vela
Tuesday, September 25, 2007	Plan rewritten, coverage limited to Dock Facility. Added missing Endangered Species / Historic Places. Updated PPT members list.	G. Siberon
Monday, November 05, 2007	Updated PPT members and approval list.	C. Gonzalez
Monday, January 26, 2009	Revised SWPPP to comply with 2008 MSGP (PRR05BL65).	G. Siberon
Wednesday, August 31, 2011	Revised SWPPP to cover power plant.	H. Avila
Thursday, August 30, 2012	Updated SWPPP according with Engineering Analysis and updated PPT members.	H. Avila
Wednesday, August 28, 2013	Updated to include new structural BMPs.	H. Avila
Thursday, January 15, 2015	Updated to include new structural and non-structural BMPs.	H. Avila
Saturday, August 01, 2015	New document prepared according to MSGP 2015 (PRR053093).	Winston Esteves, P.E.
Wednesday, March 29, 2017	Updated to include the Dust Control Plan SOP and ammend aplicable sector for the dock area.	Winston Esteves, P.E.

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Title:

Coal Combustion Residuals and Agremax™ Dust Control Plan

Approvals:

Approved by:
Pedro Labayen

Reviewed by:
Carlos M. Gonzalez

Environmental Coordinator
Hector Avila

Elias Sostre
Operations Manager

Manuel Mata
President

Signature

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Distribution List:

- 1. CCP Area
- 2. Material Handling
- 3. Environmental Coordinator
- 4. Operations & Maintenance Area
- 5. Plant Manager

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Appendices

Appendix 1 Dust Control Maps

Appendix 2 Dust Control Inspection Checklist

Appendix 3 Dust Control Activity Flowchart

Appendix 4 Citizen Complaints Log

Appendix 5 Dust Control Training Syllabus

Appendix 6 Employee Training Attendance Form

Appendix 7 Weekly Stockpile Inspection Form

Appendix 8 Annual CCR Fugitive Dust Control Reports

Appendix 9 Annual Inspection Reports

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1. Purpose

This Standard Operating Procedure (SOP) identifies methods to prevent, reduce or mitigate fugitive dust from the coal combustion residuals (CCRs) and Agremax[™] handling activities at the AES-PR site.

The primary purpose of this SOP is to explain how the requirements in Section 2.1.2.12 of the US Environmental Protection Agency's (EPA) 2015 Multi-Sector General Permit for Storm Water Discharges Associated with Industrial Activity (2015 MSGP) - Dust Generation and Vehicle Tracking of Industrial Materials; and the Standards for the Disposal of Coal Combustion Residuals From Electric Utilities (CCR Rule) of April 17, 2015 will be implemented and monitored at AES-PR.

2. Scope

The Coal Combustion Residuals and Agremax™ Dust Control Plan (Plan) described in this SOP addresses fugitive dust emissions (i.e., emitted from any source other than a stack or chimney) from coal combustion residuals (ash) and Agremax™ handling equipment and operations which are non-point sources and area sources within the AES-PR property boundaries as shown in Appendix 1. It does not address particulate or gaseous emissions from point or other (usually enclosed) sources regulated under the facility's air emission permit issued in accordance with the provisions of Part VI of the Regulation for the Control of Atmospheric Pollution (RCAP) and the

AES Puerto Rico's temporary storage of its inventory of manufactured aggregate is not subject to the CCR Rule, 40 C.F.R. Part 257. Nonetheless, as a protective measure, AES Puerto Rico has prepared this Plan and taken other steps to satisfy CCR Rule requirements applicable to CCR landfills. By undertaking these measures, AES Puerto Rico does not admit its facility is a CCR landfill covered by the CCR Rule and expressly preserves all rights and defenses.

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Code of Federal Regulations, Title 40 Part 70 e.g. coal combustion and transfer and power generation areas.

It identifies sources of fugitive dust, outlines the techniques and practices for detecting, monitoring, controlling, minimizing and preventing dust emissions, provides procedures to handle citizen complaints, employee training program guidelines to help them recognize potential sources of dust and the management practices to prevent and control them, identifies the persons and procedures responsible for control equipment availability / operation and maintenance and identifies the inspection / recordkeeping / reporting / notification practices that will be followed.

3. Responsibilities

- 3.1. The AES-PR Coal Combustion Products (CCP) and Material Handling (MH) leaders are the dust control site coordinators responsible for the implementation of this SOP, including: reading and understanding it, ensuring that all employees / workers / subcontractors know and understand their dust control responsibilities, monitoring the worksite for compliance with the requirements of this SOP, designing watering schedules, ensuring that adequate watering capability is available, determining when to use standby controls when primary controls are ineffective, determining when to cease and start operations, maintaining records and revising the SOP as necessary, including when the primary and standby or contingency controls don't result in effective control.
- 3.2. The Shift Team Leaders and the CCP/MH Operators are responsible for controlling their operational areas to minimize dust generation. This includes limiting or stopping operations during high winds and/or visible dust plume conditions that cannot be controlled. Limitation or ceasing of operations will be documented using the Dust Control Inspection Checklist (Appendix 2).

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- 3.3. The CPP/MH Operators are responsible for enforcing the requirements of this SOP and notifying the dust control site coordinator or Shift Team Leader of any visible dust plumes which require immediate attention, including those that cross the site boundary. The operational activity that caused the emission will be ceased temporarily until a re-evaluation of the dust control measures is completed and additional controls are identified and implemented, if needed. Limitation or ceasing of operations will be documented using the Dust Control Inspection Checklist (Appendix 2).
- 3.4. All dust control equipment i.e., water truck, sweeper, sprinklers, hoses, will be maintained in good operational order by the responsible areas. The water truck will be the responsibility of MH, the sweeper will be the responsibility of CCP; all other controls will be the responsibility of the Maintenance Area. Each area will document and maintain records of how frequently equipment maintenance is done and of all equipment malfunctions and downtimes.

4. Safety Precautions

All AES-PR employees and contractors must use the safety and personal protective equipment required for conducting the activities described herein, including but not limited to hard hats, safety glasses, harness, life preservers and other, as appropriate.

5. Dust Emission Sources

The potential dust emission sources covered by this Plan are located at the southeast quadrant of the plant site and the marine dock. See Appendix 1

Fly ash and bottom ash are produced by the coal combustion process and stored in two elevated silos and eventually transferred from the silos directly into totally-enclosed bulk trailers for transport by public highway to off-site users.

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AgremaxTM is a manufactured aggregate produced by AES-PR using its own CCRs. Ashes that are not delivered to off-site users are mixed in a pug mill conditions this CCR to produce AgremaxTM with enough moisture to prevent wind dispersal without producing free liquids before feeding a conveyor belt used to transfer the mixture to an open stockpile area where it is also kept wet by the application of water sufficient to prevent dispersal by wind (without producing free liquids) before feeding a conveyor belt used to transfer the mixture to an open Stockpile Area at the facility where it is also kept wet by the application of water sufficient to prevent dispersal by wind (without producing free liquids) before it is spread by a bulldozer. A stockpile² to store the inventory of AgremaxTM is formed by a bulldozer or by dump trucks that are loaded with AgremaxTM by an excavator or front end loader, and the trucks then place the AgremaxTM onto a stockpile. From the Stockpile Area the AgremaxTM is loaded by an excavator or front-end loader into dump trucks, covered, and sent for transport by public highway to off-site users or for disposal. Alternatively, the AgremaxTM can be fed by a bulldozer into a crusher located in the Stockpile Area. The crusher feeds an enclosed conveyor to transfer the AgremaxTM to marine vessels in the dock area for shipment overseas. Dust can be generated from the ash-AgremaxTM transfer operations, truck loading and unloading, crusher loading, from paved and unpaved haul roads within the site, and from the Stockpile Area.

6. Controls

The main equipment and structures used for controlling dust emissions include a water truck with rear spray nozzles and front water cannon, a broom sweeper, mobile water sprinkler guns,

² AES-PR currently maintains two separate Agremax[™] stockpiles. These two stockpiles are located in the Stockpile Area behind the plant. One stockpile includes the Agremax[™] inventory produced and stored before October 17, 2015. The second stockpile has Agremax[™] inventory produced on or after October 17, 2015. Each stockpile will be covered by this SOP.

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large water hoses, fixed water spray nozzle systems / articulated telescoping spouts at drop and loading / shipping areas, a truck wheel cleaning station and curved- paved haul roads.

In addition to the use of the equipment and structures described above, primary (first approach) and contingency (standby or backup strategy) control measures are used to control the generation of dust emissions. Refer to the flowchart in Appendix 3.

Primary controls include initial and annual personnel training, a daily operational inspection checklist to monitor the implementation and effectiveness of the control measures, daily evaluation of weather forecast and real-time instrumental monitoring of weather conditions (precipitation, wind speed-direction [refer to AES Rainfall Data Collection Management & Recordkeeping Procedure. SOP-Eng-002]), around the clock watering of stockpile surfaces and pre-shift watering of haul roads, daily log of water truck use, covered transfer conveyors, continuous observation of visible dust emissions (VDE), daily sweeping / cleaning of paved roads, maintenance / repair of paved road surfaces, immediate cleanup of track-out and material spillage onto paved roads, prohibited use of blower devices or dry rotary brushes or brooms, enforcement of posted vehicle and moving equipment speed limits to 10 miles per hour (mph) or less, traffic restrictions, minimization of drop distances at transfer points, loading of trucks to prevent their contents from dropping/leaking/ blowing or otherwise escaping, sweeping or spray-cleaning and covering dump trucks prior to leaving the facility, 6inch minimum bed freeboard clearance requirements for loading dump trucks, surface roughening-compaction of stockpile surfaces, placing stockpile ridges at right angles to prevailing winds, conducting loading and unloading activities on the downwind side of a stockpile, watering of exposed areas before forecasted high winds, restriction or termination of a stockpile disturbance and hauling activities during high sustained wind conditions (i.e., 25 miles per hour or higher) and scheduled washing of mobile equipment.

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At the start of each shift or material handling equipment startup and at least twice during each shift, the CPP/MH Operators will assess the operational status of all controls and record such assessments using the Dust Control Inspection Checklist in Appendix 2 which will be used to monitor the implementation and effectiveness of the control measures. Water truck operations may be curtailed during wet weather if the CPP/MH Operators confirm that the AgremaxTM is sufficiently wet as to not require further wet abatement (one inch of precipitation is equivalent to an application of 5.6 gallons of water per square yard). These determinations will also be recorded in the Dust Control Inspection Checklist.

If after the implementation of primary control measures, visible dust emissions persist, contingency control measures including additional wetting of the stockpiles with sprinklers, applying chemical dust suppressants, surfacing of unpaved haul roads with aggregate cover / aprons and restriction /termination of activities could be implemented. Because the control effectiveness of chemical dust suppressants depend on the dilution rate, the application rate, time between applications, size/speed / amount of traffic and meteorological conditions any chemical dust suppressants used will be applied according to the manufacturer's instructions. If primary and contingency controls don't result in effective control, this SOP must be revised.

The dust type / source and the primary control measures used for each source can be described as follows:

6.1. AgremaxTM- Ash / Paved Haul Roads

<u>Description</u>: Emissions can be generated from uncovered truck beds, spillage from haul trucks, vehicle dust carryout and track out. Wind and traffic, including plant (front end loaders, trucks and trailers) and customer vehicles, re-suspend the deposited material creating secondary sources of dust emissions. The average vehicle weight is highly variable, ranging from small pick-up trucks (1 ton) to large trucks / trailers (30 tons).

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Control Methods and Equipment: Wet suppression by water truck with rear water sprinklers and water cannon, daily pavement cleaning with water hoses, speed limit restrictions to 10 mph or less posted along haul route, daily wet mechanical sweeping of pavement, immediate cleanup of material spillages, dump truck freeboard / cover, wheel washing and hosing at fixed station, curved shoulders and pavement surface repair as needed.

<u>Frequency of Application</u>: At the beginning of the work shift, whenever fugitive dust plumes are observed and as required to keep road surfaces wet, clean and structurally sound.

Monitoring: Twice Daily

Recordkeeping: Dust Control Inspection Checklist

6.2. AgremaxTM / Unpaved Roads

<u>Description</u>: Emissions can be generated from wind erosion of uncovered truck beds and road surfaces and heavy equipment traffic (bulldozer, excavator, front end loader, trucks and trailers).

<u>Control Methods and Equipment</u>: Daytime wet suppression by water truck with rear water nozzles and water cannon, vehicle speed limits to 10 mph or less, dump truck freeboard / cover.

<u>Frequency of Application</u>: At the beginning of the work shift, whenever fugitive dust plumes are observed and as required to keep road surfaces wet.

Monitoring: Twice Daily

Recordkeeping: Dust Control Inspection Checklist

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6.3. AgremaxTM / Stockpile.

Description: AgremaxTM is a cementitious aggregate material which forms a surface crust resulting in limited fugitive dust emissions. It is stored in an open storage pile that continuously changes in shape and volume; this state of flux limits the practicality and effectiveness of permanent or fixed structural controls like windbreaks. Emissions may be generated from the initial AgremaxTM conveyor drop discharge into the Stockpile Area, pushing by heavy equipment to create a stockpile, loading and unloading of dump trucks to remove or add AgremaxTM to a stockpile and for off-site transportation, pushing AgremaxTM into the crusher feeding the conveyor to the dock and from wind erosion of stockpile surfaces. The maximum stockpile work area is about 6.17 acres.

Control Methods and Equipment: Daytime and night time wet suppression of stockpile surfaces by ten Sime Skipper mobile sprinkler guns (each sprinkler can cover an area up to 1.2 acres, therefore providing more than enough wetting capacity for the complete AgremaxTM stockpile), daytime wet suppression of stockpile surfaces (including side slopes) by water truck with adjustable angle water cannon, fixed water spay nozzles at conveyor drop discharge point, reduced drop heights for truck loading, hose wetting of crusher feed and dump truck unloading, surface roughening - compaction of stockpile surfaces with bulldozer, stockpile ridges at right angles to prevailing winds, confining loading and unloading to downwind side of stockpile, watering of exposed areas before forecasted high winds. The combined efficiency of all the AgremaxTM moisture content controls described should be well above the 90 % reported just for watering storage piles. In contrast, control efficiencies of only 75 % can be expected from providing 3-sided enclosures e.g., wind breaks with 50 % porosity making such control unnecessary and burdensome.

<u>Frequency of Application</u>: Around the clock and at the beginning of the work shift, and as required to keep stockpile surfaces wet.

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Monitoring: Twice during each shift

Recordkeeping: Dust Control Inspection Checklist

6.4. Ash / Transfer to Bulk Trailers

<u>Description</u>: Fugitive dust emissions may be generated during the chute connection and disconnection steps required for loading ash from the elevated storage silos into bulk trailers for off-site transportation.

<u>Control Methods and Equipment</u>: Discharge drop height control using articulated- telescopic loading spout, enclosed loading area, wet suppression with water spray nozzles at west side of loading bay, truck- trailer cleaning with water hose before leaving the loading bay.

Frequency of Application: Each loading

Monitoring: Twice Daily

Recordkeeping: Dust Control Inspection Checklist

6.5. Ash / Power Block Outage

<u>Description</u>: Fugitive dust emissions may be generated during the discharge of bottom ash from the heat exchangers into a small stockpile on the floor of the Power Block Area during outages (twice/year).

<u>Control Methods and Equipment</u>: The floor surface is not exposed to precipitation, a vacuum truck is used to collect the bottom ash from the floor.

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Frequency of Application: Twice / year during outages.

Monitoring: Twice Daily

Recordkeeping: Dust Control Inspection Checklist

6.6. AgremaxTM / Dump Truck Loading and Unloading

<u>Description</u>: Dust emissions may be generated during the loading of Agremax[™] into dump trucks to create a stockpile or for off-site transportation and during unloading of dump trucks into a stockpile.

<u>Control Methods and Equipment</u>: Daytime wet suppression by water truck with rear water nozzles and water cannon or large hoses, front end loader and excavator discharge drop height reduction.

Frequency of Application: Each loading

Monitoring: Twice Daily

Recordkeeping: Dust Control Inspection Checklist

6.7. AgremaxTM / Conveyor Loading and Transfer

<u>Description:</u> Dust emissions can be generated by wind blowing over the elevated conveyor used to transfer AgremaxTM to marine vessels at the dock area and when it is discharged into the vessel's holding compartment.

Control Methods and Equipment: Covered conveyors, discharge drop height control with articulated- telescopic loading spout.

Frequency of Application: Each loading

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Monitoring: Twice Daily (During Vessel Loading)

Recordkeeping: Dust Control Inspection Checklist

7. Citizen Complaints and Corrective Actions

Citizen complaints claiming CCR fugitive dust events at AES-PR will be documented using the Citizen Complaints Log in Appendix 4 so they can be investigated by the Environmental staff. Because CCR dust events may be short-term and visual observations will probably be required, expeditious attention will be provided to these events. If the origin of the complaint is determined to be due to CCR fugitive dust, then corrective and follow-up actions will be identified and included in the Log. This Log of Citizen complaints and a summary of corrective actions taken, if any, will be kept for use in the preparation of the Annual Fugitive Dust Control Report described below.

8. Training

To ensure that the dust control practices are followed, AES-PR will conduct an employee awareness training that will include all applicable dust control measures and the importance of strict compliance. Records of the trainings will be maintained, including the sign-in sheets.

- 8.1 The designated employees and/or contractors responsible for the performance and/or supervision of dust control activities must receive initial and yearly classroom and hands-on training on this SOP.
- 8.2 Training in the requirements of this SOP will be provided prior to commencing duties at the affected areas and at least every year following the Training Syllabus in Appendix 5.

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8.3 All trainings will be documented using the Employee Training Attendance Log in Appendix 6.

9. Inspections, Reports and Corrective Actions

In addition to the twice-daily inspections described above, AES-PR will perform weekly inspections by a qualified person to identify conditions with the potential to disrupt operations or safety of the CCR inventory stored in the Stockpile Area. The inspections will be documented using the form in Appendix 7.

AES-PR will prepare an Annual CCR Fugitive Dust Control Report that includes the following:

- Descriptions of actions taken to control CCR fugitive dust
- A record of all citizen complaints and a summary of any corrective actions taken

Finally, AES-PR will engage a qualified professional engineer to prepare an Annual Inspection Report addressing geometry changes, approximate volume, structural weaknesses, existing conditions and any other changes that can disrupt the operation, safety or stability of a stockpile.

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10. Recordkeeping

All versions of this Plan, the annual CCR Fugitive Dust Control Reports, documentation detailing corrective measures, weekly and annual inspections will be kept in the facility's operating record as they become available.

All information related to this SOP will be kept for three years after the expiration of the site's industrial storm water discharge permit under the 2015 MSGP or five years following the date on which it was prepared, whichever is later.

11. Internet Requirements and Notifications

AES-PR will ensure the Puerto Rico Environmental Quality Board is notified of the availability of the Plan, including any subsequent amendments, and of the availability of the Annual CCR Fugitive Dust Control Report, as provided in the CCR Rule. AES-PR will also ensure the most recent version of the Plan and Annual CCR Fugitive Dust Control Report is posted on a publicly-accessible internet site (CCR Web site) for the AES-PR facility, as provided by the CCR Rule.

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12. Licensed Professional Engineer Certification

This Dust Control Plan was prepared following the guidelines of 40 CFR 257.80 to cover the needs of the AES Puerto Rico facility located at Km. 142.0 State Road PR-3, Jobos Ward, Guayama, PR.

- I, Winston R. Esteves, a Puerto Rico licensed Professional Engineer, certify that:
 - I am familiar with the requirements of 40 CFR 257.80;
 - · I have visited and examined the AES Puerto Rico, facility;
 - This Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards, and with the requirements of the CCR rule;
 - · Procedures for required inspections have been established; and
 - That this Plan is adequate for the facility.

This certification in no way relieves the owner or operator of the facility of the duty to fully implement this Fugitive Dust Control Plan. This Plan is only valid to the extent that the facility owner or operator maintains, tests and inspects controls, equipment, and other devices as prescribed herein. I did not test for proper operation of any equipment, devices, control systems or any other equipment systems not specifically mentioned.

Winston R. Esteves, PE

INGENIERO LICENCIADO

LIC. 8827

PUERTO RICO

P.E. Seal

3/29/17 Date

License Number
8/31/17
License Renewal Date

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13. Periodic Plan Assessment and Amendments

The effectiveness of this Plan will be assessed to determine if updates or amendments are necessary after reviewing the Annual Fugitive Dust Control Report, the Annual Inspection Report and whenever there is a change in conditions that would substantially affect it e.g. construction and operation of a new CCR unit, significant increases in quantities of CCR managed, changes in CCR handling / storage practices or modifications to CCR handling / storage equipment. All technical amendments to this SOP will be certified by a Professional Engineer.

A record of the amendments made to this SOP is included below.

Record of Amendments

Date of Amendment	Amended Sections or Topics	Amendments Made By	
	Original document prepared in August 2015.		
September 19, 2016	Addition of CCR Rule Provisions for Fugitive Dust	Winston R. Esteves, PE	
March 29, 2017	Revision to include EPA August12, 2016 Water Compliance Inspection comments	Winston R. Esteves, PE	

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14. References

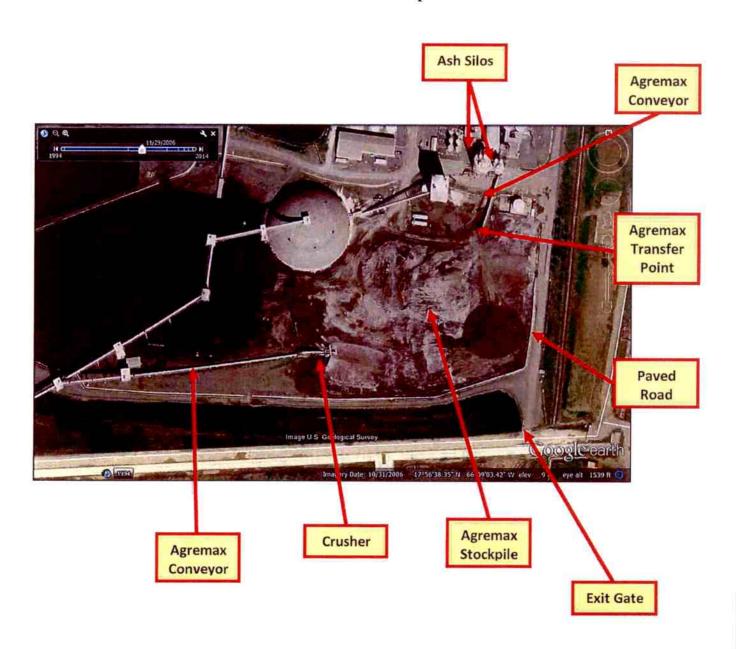
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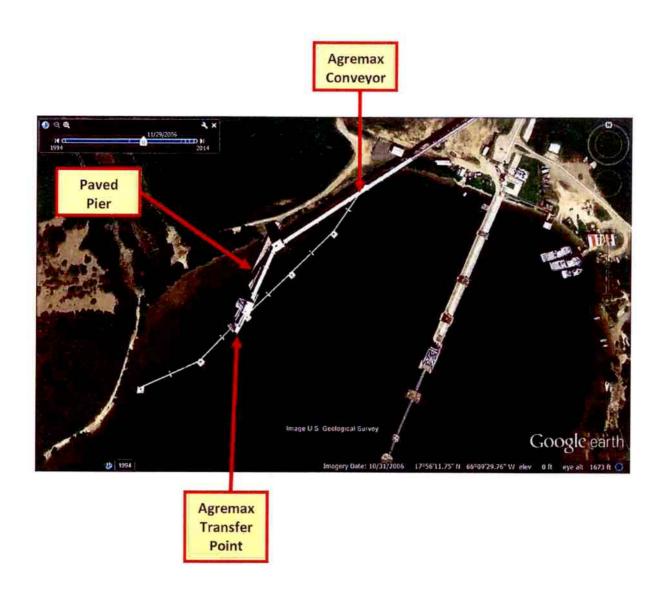


Plant Dust Control Map



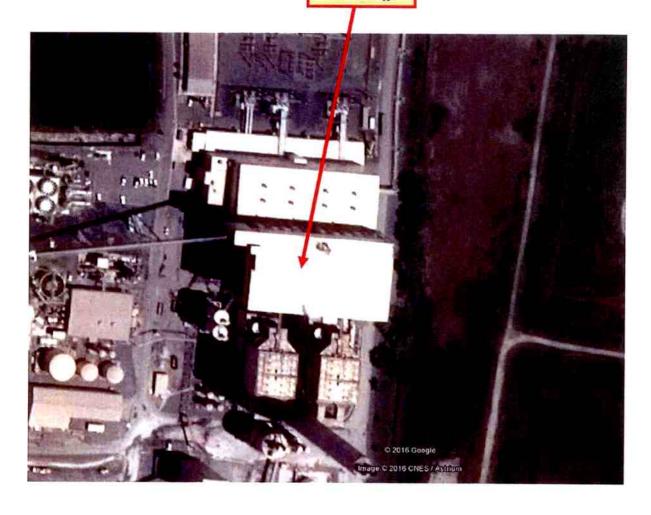


Plant Dust Control Map



AES Puerto Rico Plant Dust Control Map

Outage Ash Handling



AES Puerto Rico

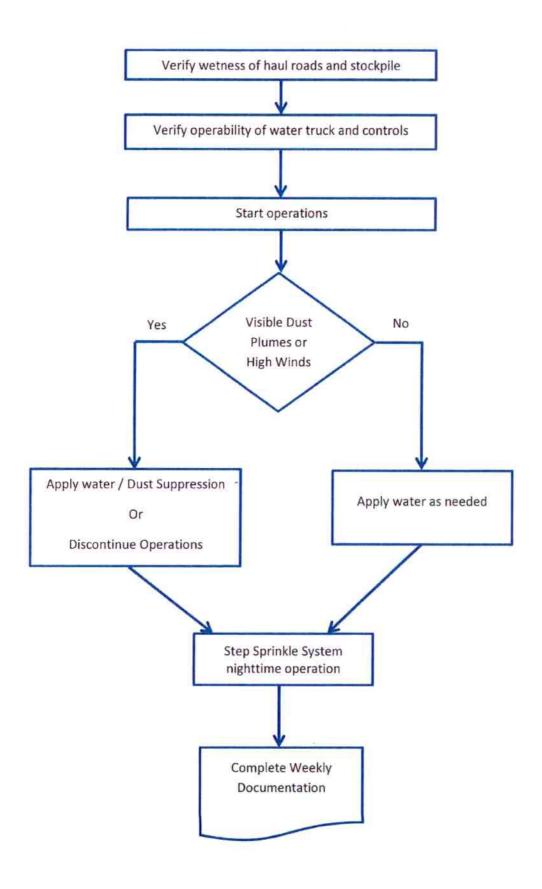
Dust Control Checklist

Control Equipment	
Skipper Sprinkler Guns (10)	OperationalNot Operational
Water Truck (1)	OperationalNot Operational
Broom Sweeper (1)	OperationalNot Operational
Vacuum Truck	OperationalNot Operational
Large Water Hoses ()	AvailableNot Available
Paved Haul Roads	
Surface in Good Condition	Yes No
Wet Surfaces	Yes No
Blowers or Dry Sweeping Used	Yes No
Visible Emissions	Yes No
Visible Speed Limit Signs Posted	Yes No
Spilled Materials	Yes No
Tracked Sediments	Yes No
Wheel Washer Station	Yes No
- Adequate Water level	Yes No
- Adequate Aggregate Depth	Yes No
- Aggregate Surface Clean	Yes No
Haul Trucks	
Within Speed Limits	Yes No
Within Established Routes	Yes No
Covered with Tarp	YesNo

Free of Debris	Yes _	No
Adequate Freeboard	Yes _	No
Low Loading Drop Height	Yes _	No
Unpaved Haul Roads		
Wet Surface	Yes _	No
Aggregate Cover	Yes _	No
Over Watering Observed	Yes	No
Road Erosion Observed	Yes	No
Visible Emissions	Yes	No
Conveyors		
Silos to Stockpile Fully Enclosed	Yes _	No
Stockpile to Dock Silos Fully Enclosed	Yes	No
Water Applied at Conveyor Drop Point	Yes _	No
Water Applied at Crusher Feed	Yes _	No
Visible Emissions	Yes _	No
Fixed Transfer Points		
Silos to Stockpile Water Sprays Operational	Yes _	No
Stockpile Crusher Feed Wet	Yes	No
Conveyor to Marine Vessel Telescoping Spout Operational	Yes	No
Silos to Bulk Trailers Telescoping Spout Operational	Yes	No
Leak Proof Spout Connection	Yes	No
Ash Silos Water Curtain Operational	Yes	No

Agremax Stockpile	
Wet Stockpile Surfaces	Yes No
Water Sprays Overlap	Yes No
Chemical Dust Suppressants Used	Yes No
Activities on downwind side	Yes No
Slope Surface Roughening /Compaction	Yes No
Ridges at Right Angles to Prevailing Winds	Yes No
Slope Erosion Observed	Yes No
Visible Emissions	Yes No
Power Bock Outage	
Bed Ash Stockpile Removal With Vacuum True	ck Yes No
Wind Speed	Wind Direction
Wind Speed	
Comments:	

Dust Control Activity Flow Chart





Fugitive Dust Citizen Complaints Log

Date and Time Complaint Received	
Person Receiving Complaint	
Method Complaint Registered or Received	*
Description of Complaint	
Area of Site Originating Complaint (if applicable)	
Corrective Actions Description and Timetable (if applicable)	
Follow-up Actions (if applicable)	,



DUST CONTROL TRAINING SYLABUS

Subject Category: Compliance with permit requirements

Training Length: 2-4 hr

Delivery Mode: Lecture, field exercise

Training Instructional Materials / Handouts: Power Point Presentation and Hard Copies

Schedule: Once / year

Training Purpose: Provide information to employees responsible for ash and Agremax

handling activities

Instructors: AES or contracted

Written Exam: No

Practical Exam: Yes

WEB Resource: N/A

Topics to be covered:

Dust Control Requirements

Fugitive Dust Sources

Primary and Contingency Controls

Prohibited Practices

Responsibilities

Monitoring and Recordkeeping

Corrective Actions



Dust Control SOP Training Attendance

Date:	
Date:	

Name	Shift/Team	Signature
1		
2		
3		
4		
5		
6		
8		
9		
10		
11		
12		
13		
14		
15		



Weekly Stockpile Inspection Form

Date:		Inspector:					
	Inspection Item	Yes	No	Notes			
1.	Adequate access						
2.	Adequate setback from gabion wall/structures						
3.	Excess water runoff						
4.	Water ponding flooding						
5.	Animal burrows						
6.	Side slopes stable						
7.	Steep slopes						
8.	Colapsed slopes						
9.	Slope rills						
10.	Surface water runon						
Add	itional Notes:						

ATTACHMENT 3

CCR 2017 Inspection Report AES Puerto Rico

Introduction

Purpose Annual inspection under the Standards for the Disposal of Coal

Combustion Residuals From Electric Utilities of April 17, 2015

(CCR Rule).

Scope Review of available information and perform a visual inspection of

the AES Puerto Rico (AES-PR) Agremax™ Stockpile Area.

Facility Location

General AES-PR is located in the south coast of the island of Puerto Rico,

about 3.4 miles southwest of downtown Guayama.

Address AES Puerto Rico

Km 142.0 State Road PR-3 Guayama, Puerto Rico 00784

Facility Description

AES-PR is a bituminous coal power plant that generates and sells electricity to the Puerto Rico Electric Power Authority with a total power generation capacity of 520 Megawatts; this represents approximately 15% of the electricity consumed on the island. AES-PR also produces a manufactured aggregate known as AgremaxTM, produced by AES-PR. using its own CCRs. Dry ashes that are not delivered to off-site users are mixed in a pug mill that conditions this CCR to produce Agremax™ before feeding a conveyor belt used to transfer the mixture to the Stockpile Area at the facility. A stockpile to store the inventory of Agremax™ is formed by a bulldozer or by dump trucks that are loaded with AgremaxTM by an excavator or front end loader, and the trucks then place the AgremaxTM onto a stockpile. From the Stockpile Area the AgremaxTM is loaded by an excavator or frontend loader into dump trucks, and sent for transport by public highway to off-site users or for disposal. Alternatively, the AgremaxTM can be fed by a bulldozer into a crusher located in the Stockpile Area. The crusher feeds a conveyor to transfer the AgremaxTM to marine vessels in the AES-PR dock area for shipment overseas.

CCR Unit Description

Location The Stockpile Area is located at the southeast quadrant of the

AES-PR site, south of the power plant and east of the limestone

storage dome.

Volume At the time of the inspection the approximate volume of

Agremax[™] contained in the stockpile was 430,000 tons.

Components

Equipment and facilities of the Stockpile Area include a front-end loader, a bulldozer, a backhoe, a water truck with rear spray nozzles and front water cannon, a broom sweeper, mobile water sprinkler guns, large water hoses, fixed water spray nozzle systems, a truck wheel cleaning station and a feeder / breaker mill. It also includes a three-layer physical containment system to prevent run-on or migration of sediments and runoff from the stockpile. This triple-containment system is composed of a gabion wall, drainage channels made of reinforced concrete and concrete low wall external to an internal road at the south side of the stockpile.

Review of Available Information

The daily inspection records for the October 2016 to July 2017 were reviewed as part of this scope of work. There were no significant issues identified during said inspections and action items have been addressed.

Visual Inspection

Date Thursday July 6, 2017.

Time/Weather Calm wind and sunny weather conditions prevailed.

Methodology and Limiting Conditions WRE confirmed the Stockpile Area boundaries and performed a vehicle and walking reconnaissance around its accessible perimeter and terraces but did not look at areas where gaining access may have presented health and/or safety hazards. The Stockpile Area was viewed during afternoon hours for visual evidence of signs of distress or malfunction.

Escort Gil Rosario of AES provided escort during the visual inspection.

General Observations

The Stockpile Area was operational at the time of the visual inspection. A main work terrace with berms on the edges was observed at the top of the stockpile.

Access Road

The access road was observed to be well graded, with berms on the edges, free of potholes and wetted.

Stockpile Surface / Slopes

No animal burrows were observed. Slopes appeared adequate.

Erosion

Localized rills were observed on the surface of stockpile slopes, they appeared to be related to over-watering by the water sprinkler guns.

Dust

Dust controls, including the broom sweeper, mobile water sprinkler guns, large water hoses and fixed water spray nozzle systems were observed to be in good condition. The water truck was not operational at the time. Some fugitive dust caused by wind was observed on the west slope of the Stockpile at the time of inspection.

Sediment

The gabion wall surrounding the Stockpile Area was observed to be free of sediment and with an adequate and unobstructed setback.

Drainage

The drainage channels surrounding the Stockpile Area were observed to be free of standing water or sediment and unobstructed.

Containment Structures

The low wall appeared to be structurally sound. No gaps or cracks were observed on its concrete surfaces.

Conclusions

Changes in Geometry The size of the Stockpile has increased to an estimated height of 120 feet.

Potential Structural Weaknesses

Based on the visual inspection, no apparent or potential structural weaknesses were observed.

Other Changes

The stockpile slopes have become longer and steeper.

Certification

I hereby certify that I visually inspected and prepared this Report for the Stockpile Area, owned and operated by AES-PR in accordance with the Coal Combustion Residuals Rule 40 CFR 257.84(b). I am a dully-licensed Professional Engineer under the laws of Puerto Rico.

7/13/17

Date

8827

License Number

8/31/17

License Renewal Date



Winston R. Esteves P.E.



P.E. Seal